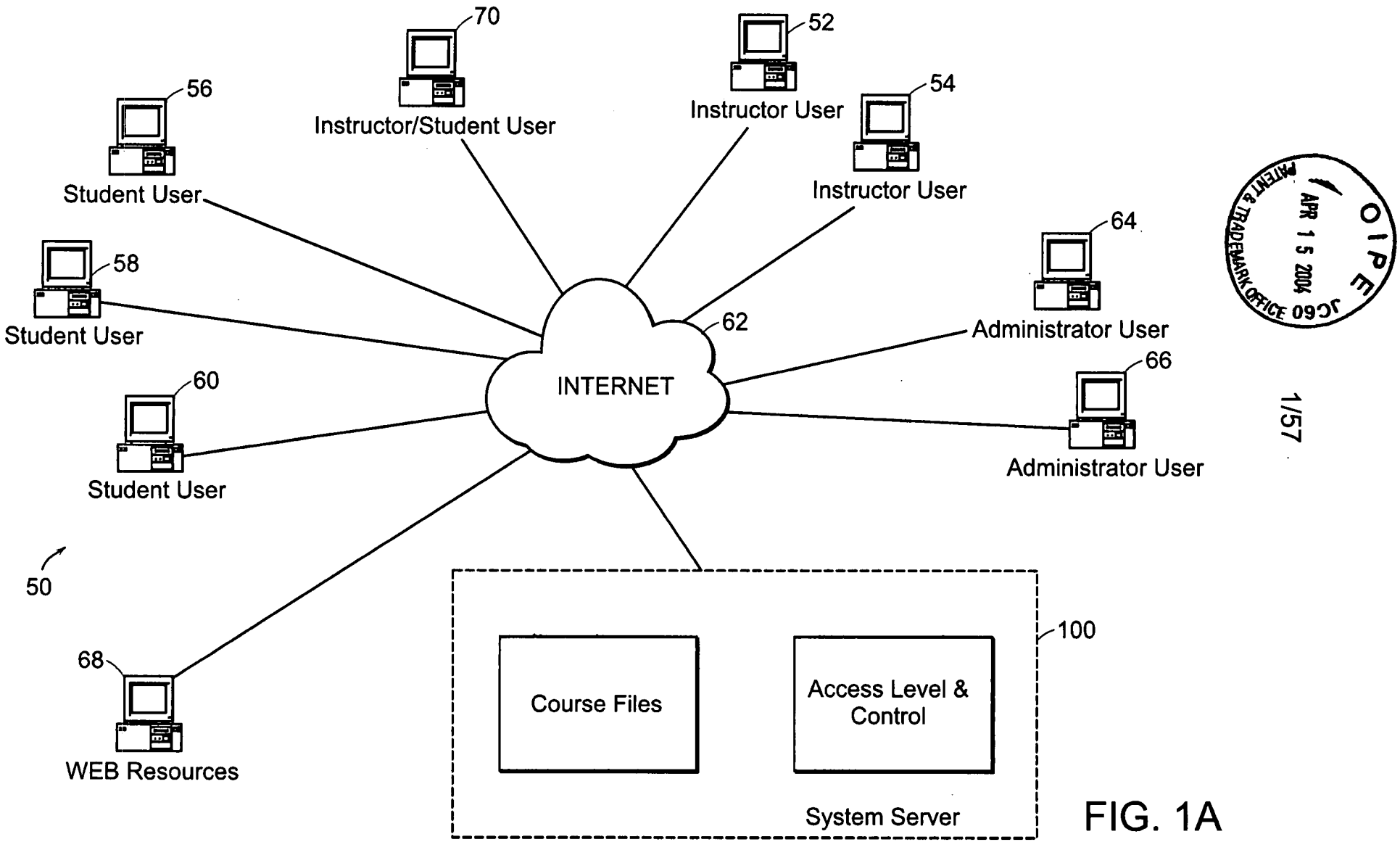


FIG. 1A

PATENT & TRADEMARK OFFICE
APR 15 2004
OIPE
JC60

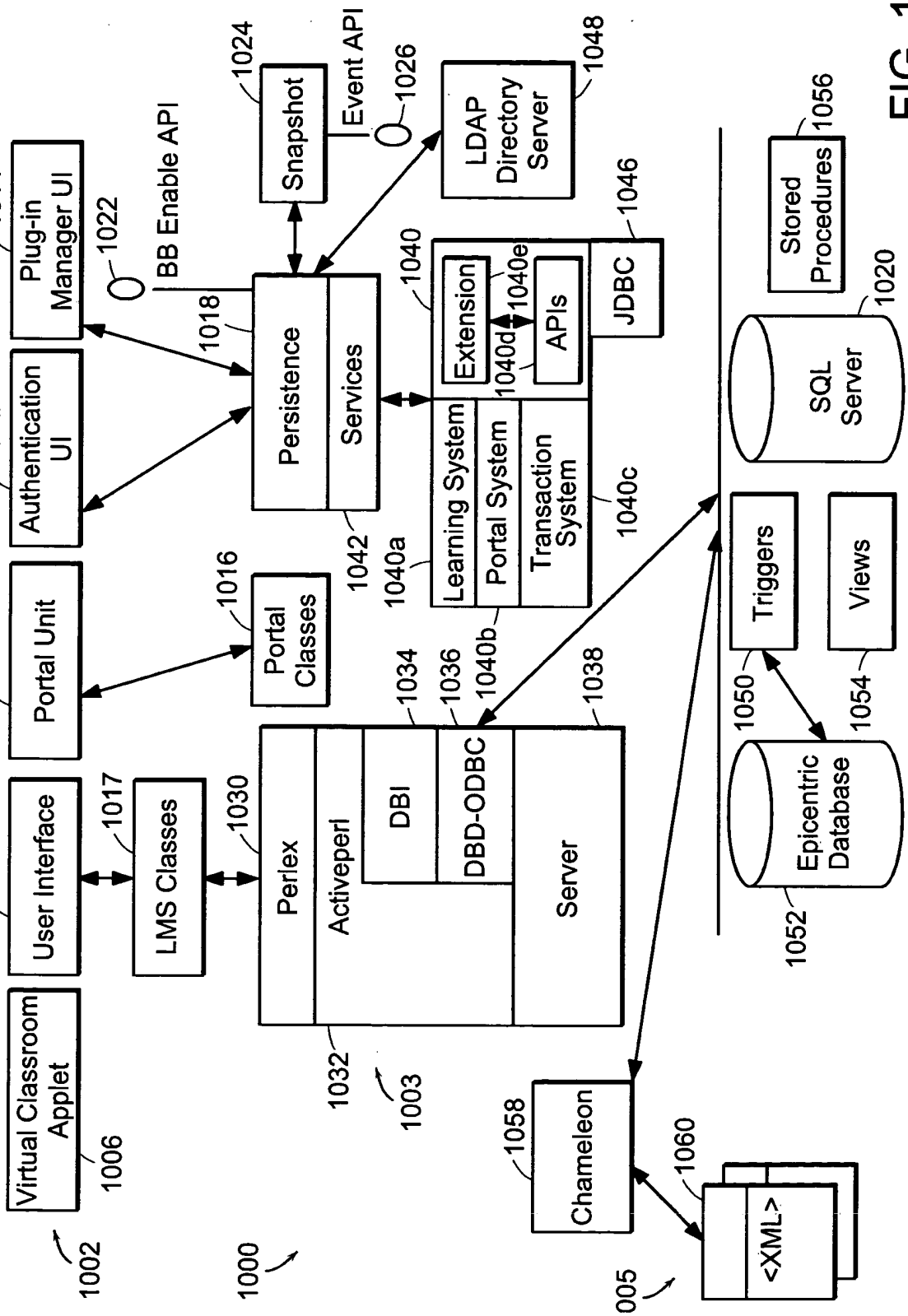

Virtual Classroom Applet
1006
1002
User Interface
1008
LMS Classes
1017
1030
Perlex
Activeperl
DBI
DBD-ODBC
Server
1032
1003
1034
1036
1038
1040b
1000
Portal Unit
1010
Portal Classes
1016
Authentication UI
1012
Plug-in Manager UI
1014
1022
BB Enable API
Persistence
Services
1018
1042
Snapshot
1024
Event API
1026
LDAP Directory Server
1048
1040
Extension
1040d
APIs
1040e
JDBC
1046
Learning System
Portal System
Transaction System
1040a
1040c
Chameleon
1058
1060
<XML>
1005
Stored Procedures
1056
SQL Server
1020
Triggers
Views
1050
1054
Epicentric Database
1052

FIG. 1B

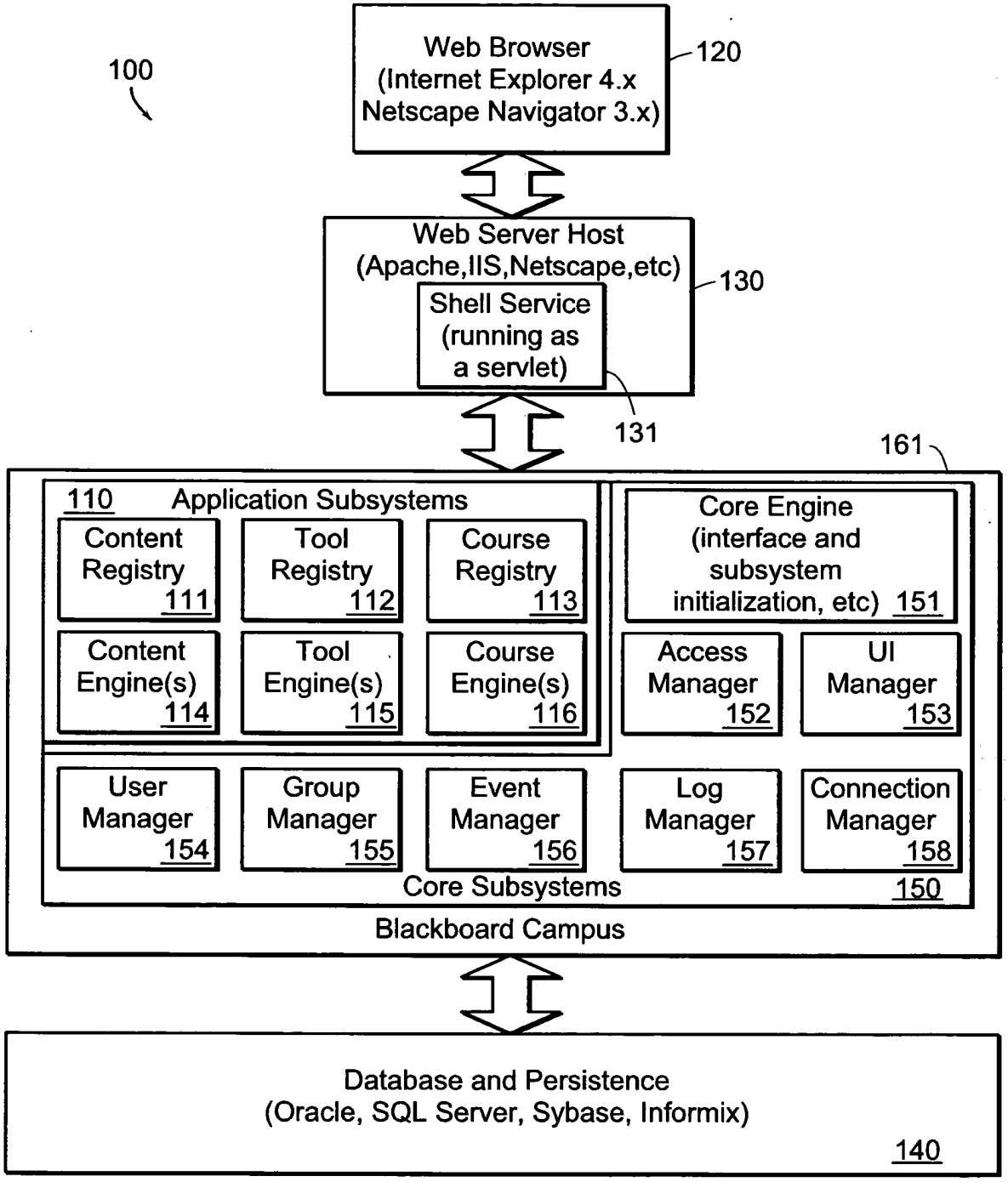
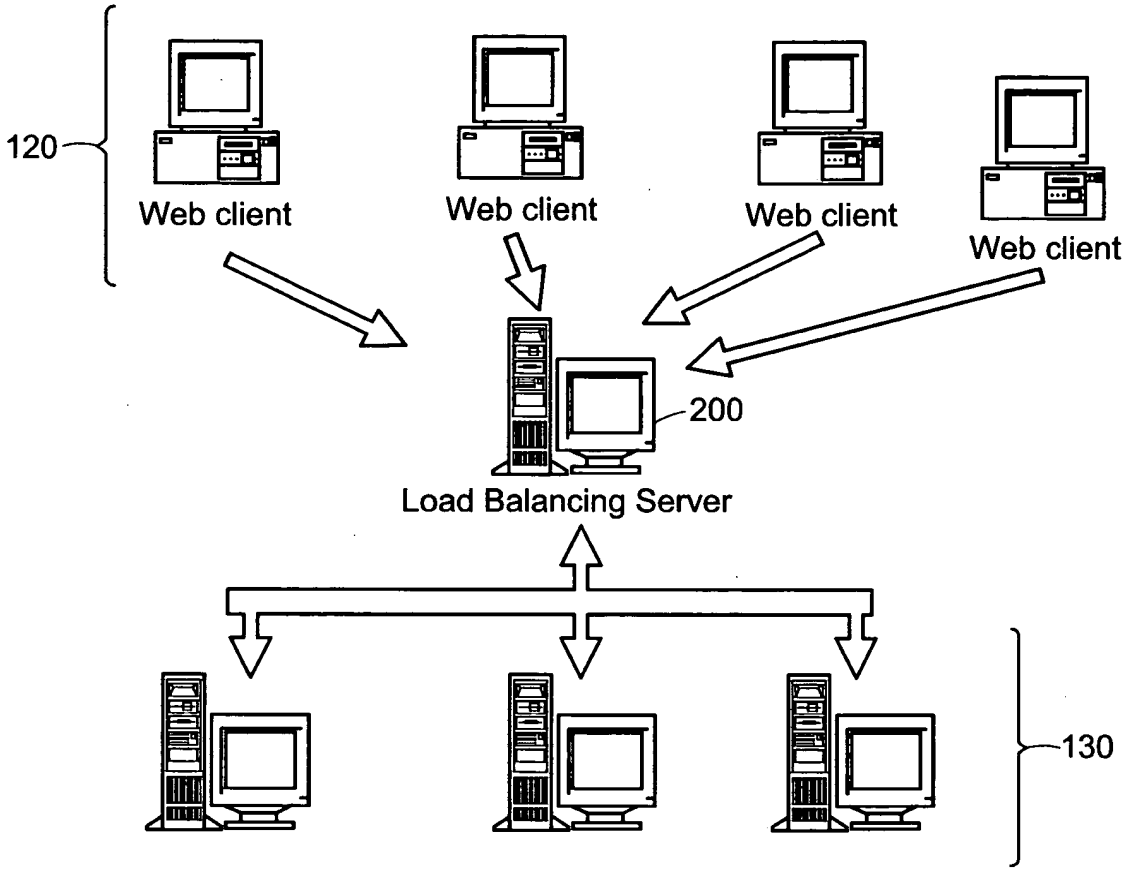
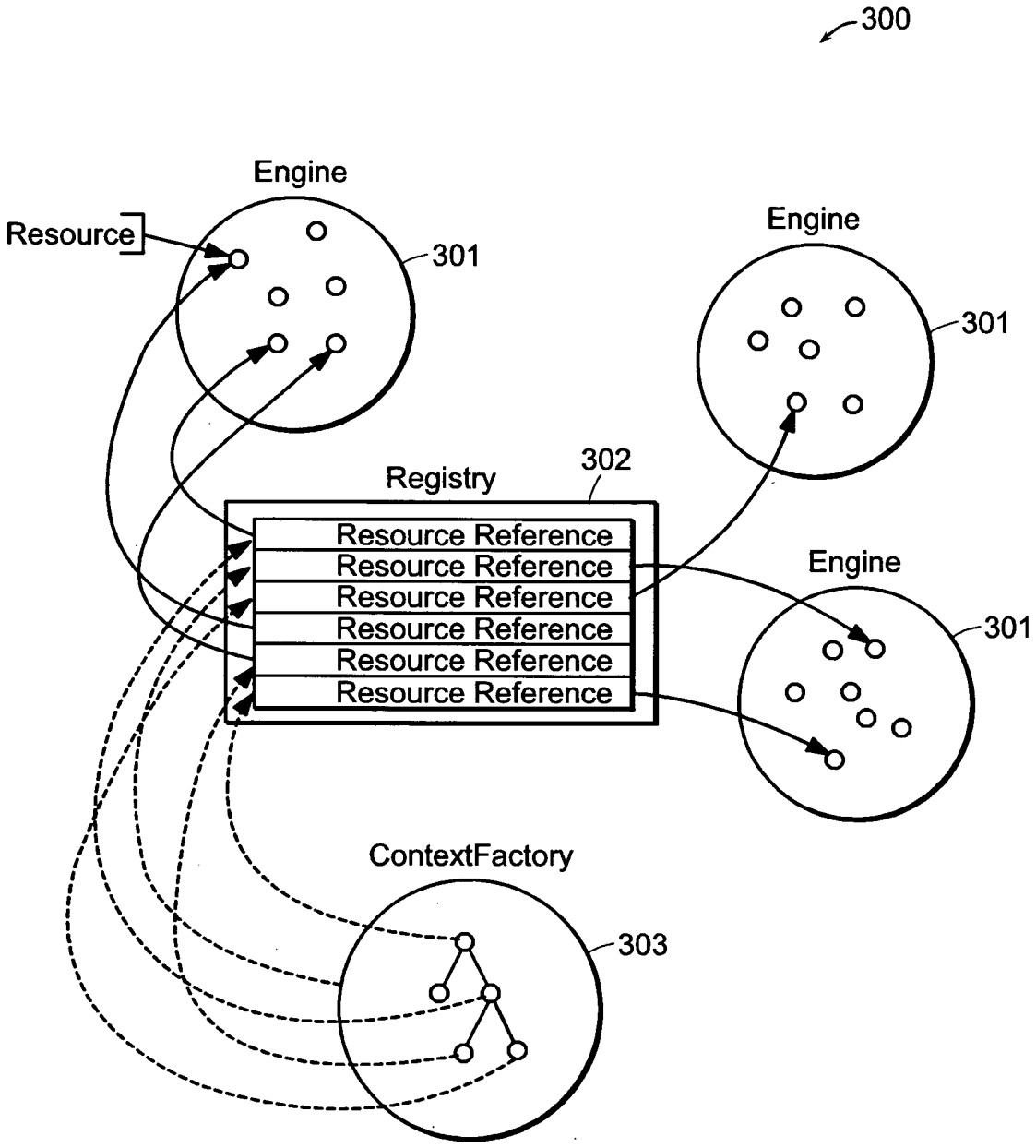

100
Web Browser
(Internet Explorer 4.x
Netscape Navigator 3.x)
120
Web Server Host
(Apache,IIS,Netscape,etc)
130
Shell Service
(running as
a servlet)
131
161
110 Application Subsystems
Content Registry 111
Tool Registry 112
Course Registry 113
Content Engine(s) 114
Tool Engine(s) 115
Course Engine(s) 116
Core Engine
(interface and
subsystem
initialization, etc) 151
Access Manager 152
UI Manager 153
User Manager 154
Group Manager 155
Event Manager 156
Log Manager 157
Connection Manager 158
Core Subsystems 150
Blackboard Campus
Database and Persistence
(Oracle, SQL Server, Sybase, Informix)
140

FIG. 1C



Machine Scalability Using Load Balancing

FIG. 2



Engine/Registry Model

FIG. 3

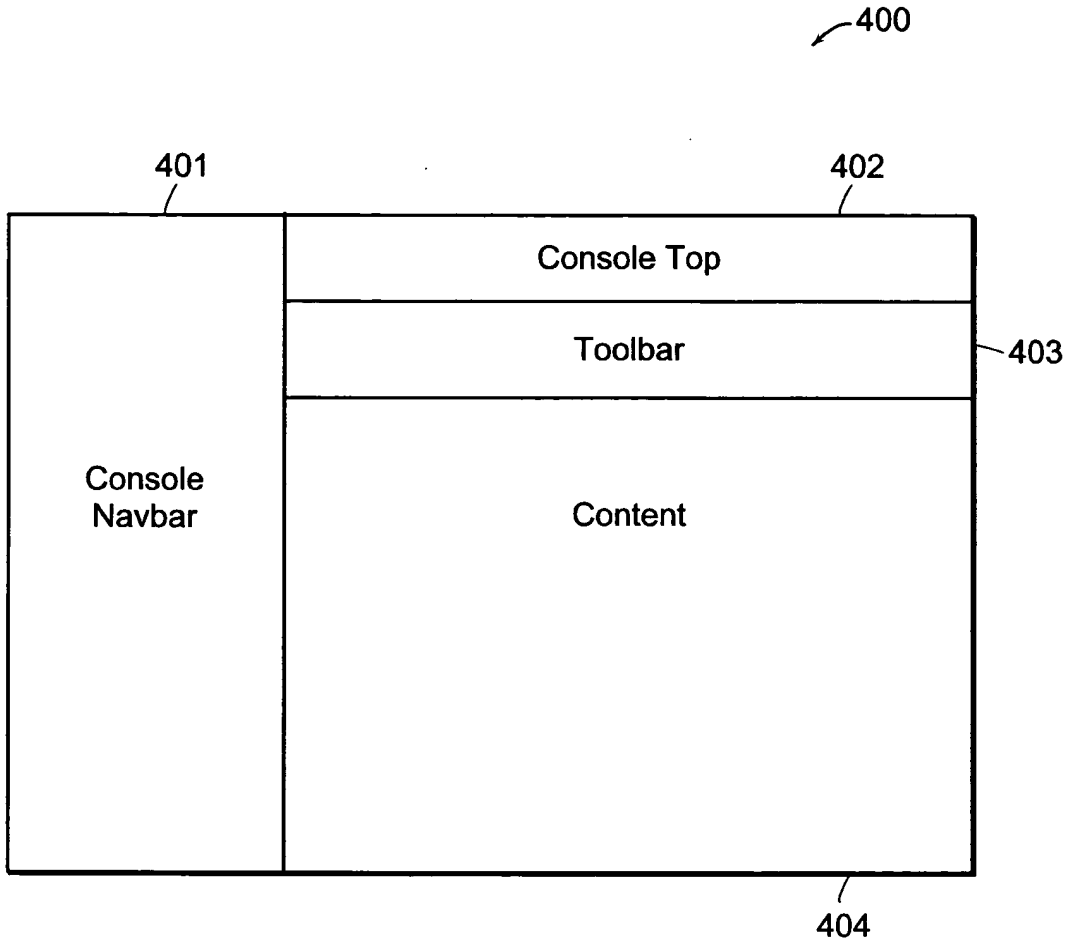

400
401
402
Console Top
Toolbar
403
Console
Navbar
Content
404

FIG. 4

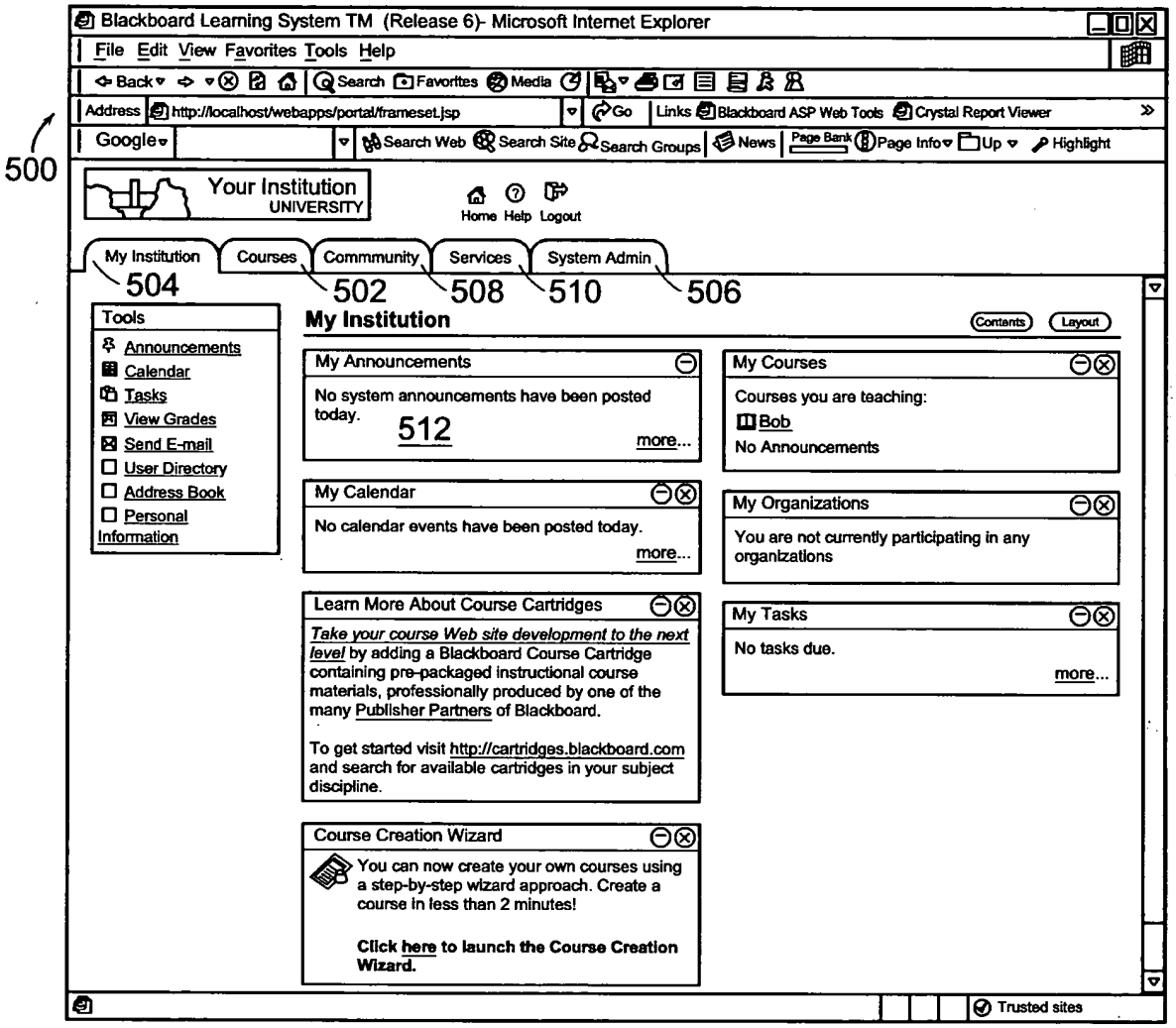

500
Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://localhost/webapps/portal/frameset.jsp
Go Links Blackboard ASP Web Tools Crystal Report Viewer
Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight
Your Institution
UNIVERSITY
Home Help Logout
My Institution
Courses
Commmunity
Services
System Admin
504
502
508
510
506
Tools
Announcements
Calendar
Tasks
View Grades
Send E-mail
User Directory
Address Book
Personal Information
My Institution
Contents
Layout
My Announcements
No system announcements have been posted today.
512
more...
My Courses
Courses you are teaching:
Bob
No Announcements
My Calendar
No calendar events have been posted today.
more...
My Organizations
You are not currently participating in any organizations
Learn More About Course Cartridges
Take your course Web site development to the next level by adding a Blackboard Course Cartridge containing pre-packaged instructional course materials, professionally produced by one of the many Publisher Partners of Blackboard.
To get started visit http://cartridges.blackboard.com and search for available cartridges in your subject discipline.
My Tasks
No tasks due.
more...
Course Creation Wizard
You can now create your own courses using a step-by-step wizard approach. Create a course in less than 2 minutes!
Click here to launch the Course Creation Wizard.
Trusted sites

FIG. 5

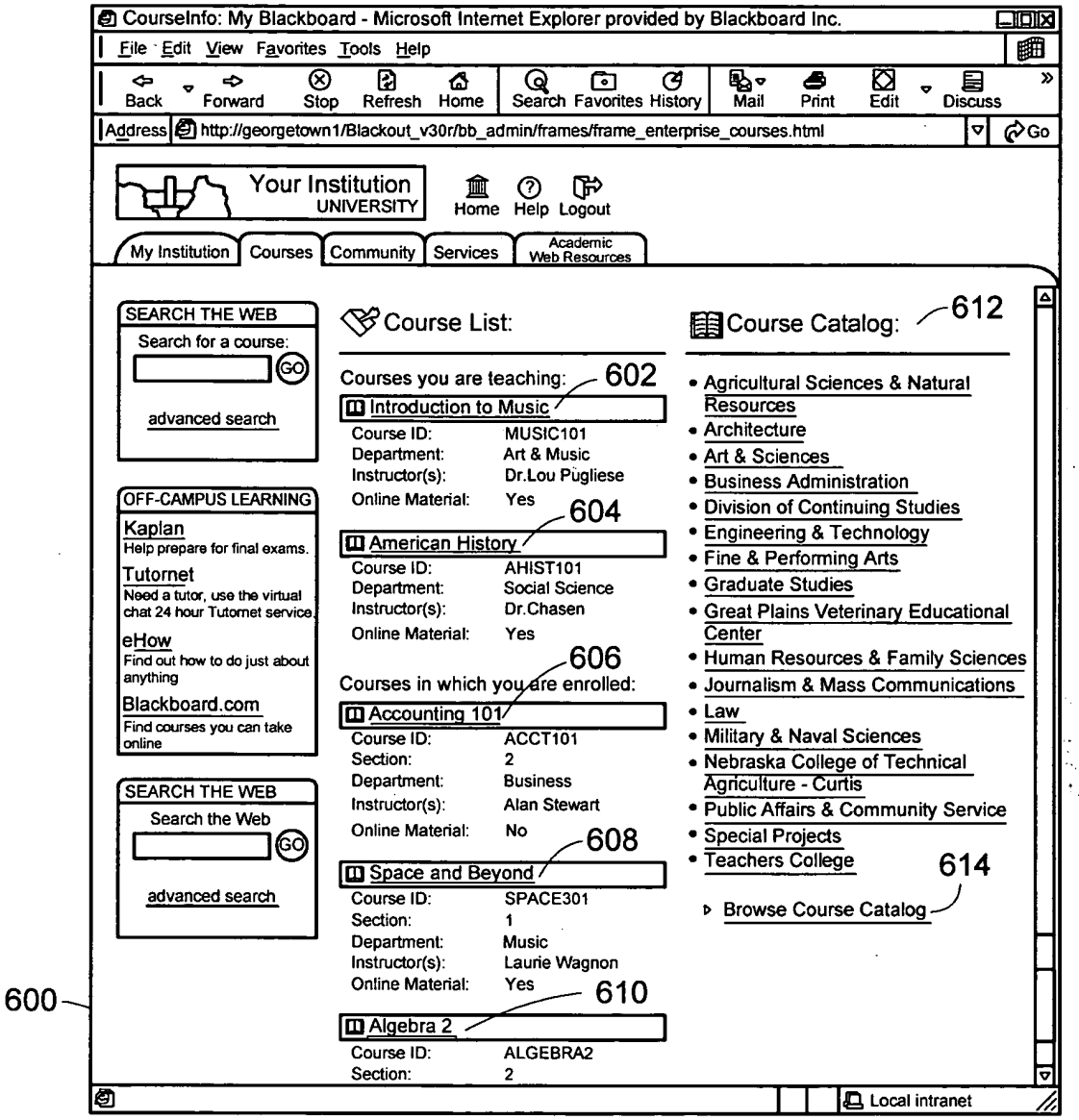

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss
Address http://georgetown1/Blackout_v30r/bb_admin/frames/frame_enterprise_courses.html
Go
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources
SEARCH THE WEB
Search for a course:
GO
advanced search
OFF-CAMPUS LEARNING
Kaplan
Help prepare for final exams.
Tutornet
Need a tutor, use the virtual chat 24 hour Tutornet service.
eHow
Find out how to do just about anything
Blackboard.com
Find courses you can take online
SEARCH THE WEB
Search the Web
GO
advanced search
Course List:
Courses you are teaching:
602
Introduction to Music
Course ID: MUSIC101
Department: Art & Music
Instructor(s): Dr.Lou Pugliese
Online Material: Yes
604
American History
Course ID: AHIST101
Department: Social Science
Instructor(s): Dr.Chasen
Online Material: Yes
606
Courses in which you are enrolled:
Accounting 101
Course ID: ACCT101
Section: 2
Department: Business
Instructor(s): Alan Stewart
Online Material: No
608
Space and Beyond
Course ID: SPACE301
Section: 1
Department: Music
Instructor(s): Laurie Wagnon
Online Material: Yes
610
Algebra 2
Course ID: ALGEBRA2
Section: 2
Course Catalog:
612
Agricultural Sciences & Natural Resources
Architecture
Art & Sciences
Business Administration
Division of Continuing Studies
Engineering & Technology
Fine & Performing Arts
Graduate Studies
Great Plains Veterinary Educational Center
Human Resources & Family Sciences
Journalism & Mass Communications
Law
Military & Naval Sciences
Nebraska College of Technical Agriculture - Curtis
Public Affairs & Community Service
Special Projects
Teachers College
614
Browse Course Catalog
600
Local intranet

FIG. 6

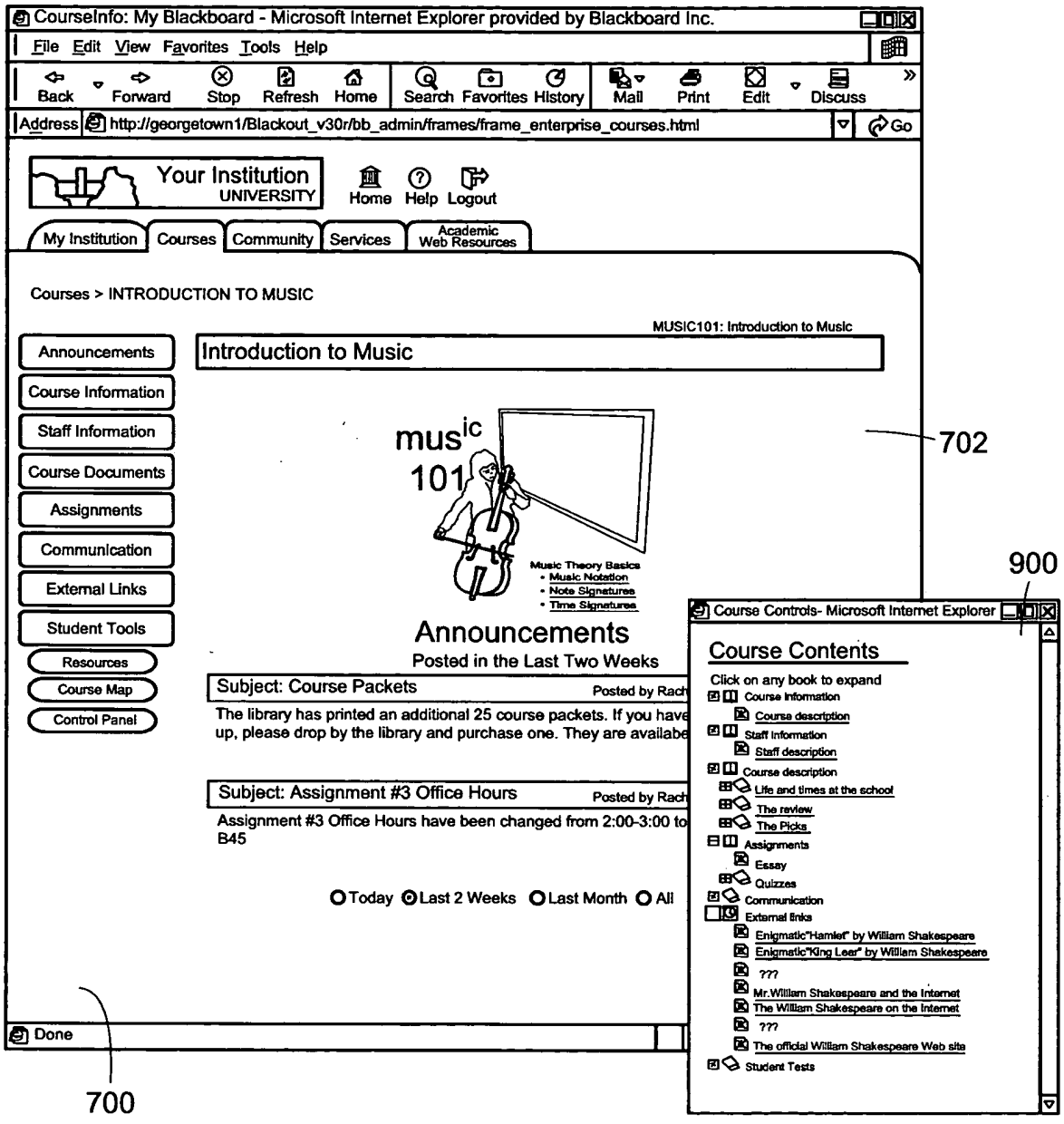
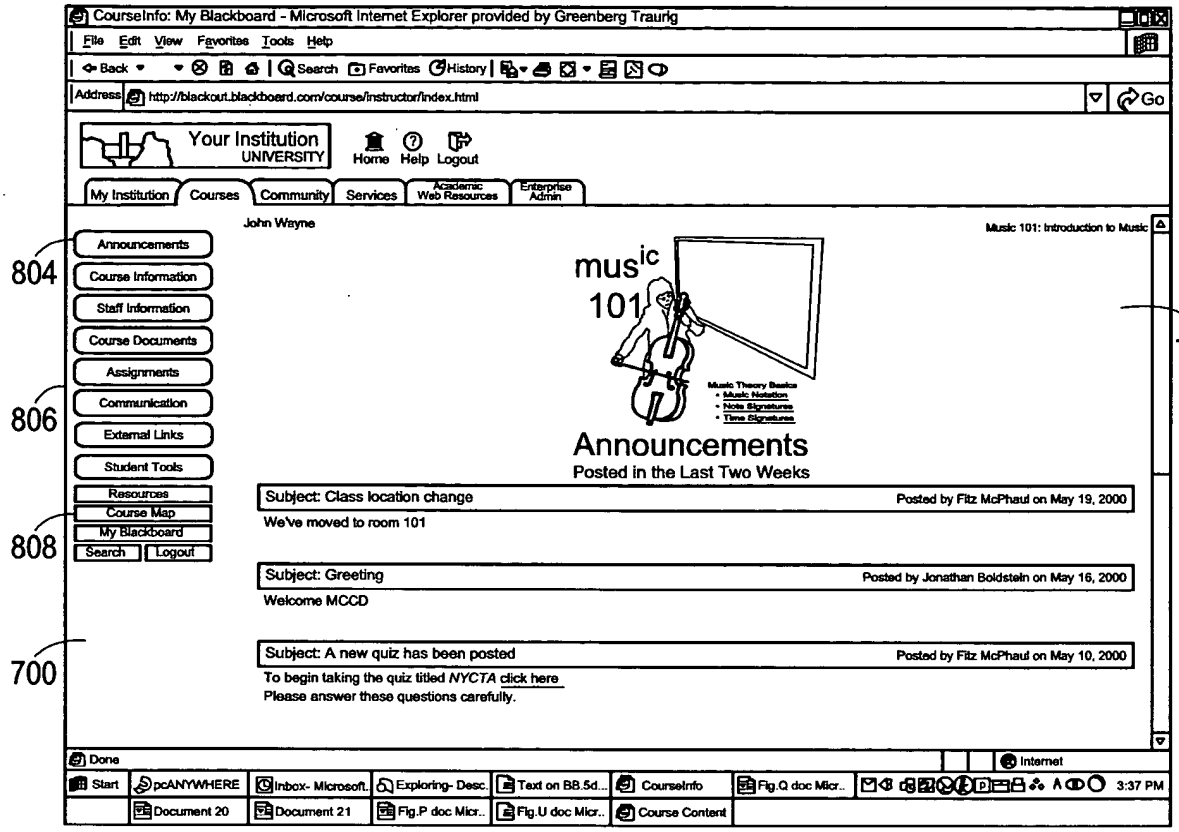

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss
Address http://georgetown1/Blackout_v30r/bb_admin/frames/frame_enterprise_courses.html
Go
Your Institution
UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources
Courses > INTRODUCTION TO MUSIC
MUSIC101: Introduction to Music
Announcements
Course Information
Staff Information
Course Documents
Assignments
Communication
External Links
Student Tools
Resources
Course Map
Control Panel
Introduction to Music
music 101
Music Theory Basics
• Music Notation
• Note Signatures
• Time Signatures
Announcements
Posted in the Last Two Weeks
Subject: Course Packets
Posted by Rach
The library has printed an additional 25 course packets. If you have
up, please drop by the library and purchase one. They are availabe
Subject: Assignment #3 Office Hours
Posted by Rach
Assignment #3 Office Hours have been changed from 2:00-3:00 to
B45
Today Last 2 Weeks Last Month All
Done
700
702
900
Course Controls- Microsoft Internet Explorer
Course Contents
Click on any book to expand
Course Information
Course description
Staff Information
Staff description
Course description
Life and times at the school
The review
The Picks
Assignments
Essay
Quizzes
Communication
External links
Enigmatic"Hamlet" by William Shakespeare
Enigmatic"King Lear" by William Shakespeare
???
Mr.William Shakespeare and the Internet
The William Shakespeare on the Internet
???
The official William Shakespeare Web site
Student Tests

FIG. 7


CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://blackout.blackboard.com/course/instructor/index.html
Go
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
804
Announcements
Course Information
Staff Information
Course Documents
Assignments
806
Communication
External Links
Student Tools
Resources
Course Map
808
My Blackboard
Search Logout
700
John Wayne
Music 101: Introduction to Music
music 101
Music Theory Basics
• Music Notation
• Note Signatures
• Time Signatures
702
Announcements
Posted in the Last Two Weeks
Subject: Class location change
Posted by Fitz McPhaul on May 19, 2000
We've moved to room 101
Subject: Greeting
Posted by Jonathan Boldstein on May 16, 2000
Welcome MCCD
Subject: A new quiz has been posted
Posted by Fitz McPhaul on May 10, 2000
To begin taking the quiz titled NYCTA click here
Please answer these questions carefully.
Done
Internet
Start
pcANYWHERE
Inbox- Microsoft..
Exploring- Desc..
Text on BB.5d...
CourseInfo
Fig.Q doc Micr..
3:37 PM
Document 20
Document 21
Fig.P doc Micr..
Fig.U doc Micr..
Course Content

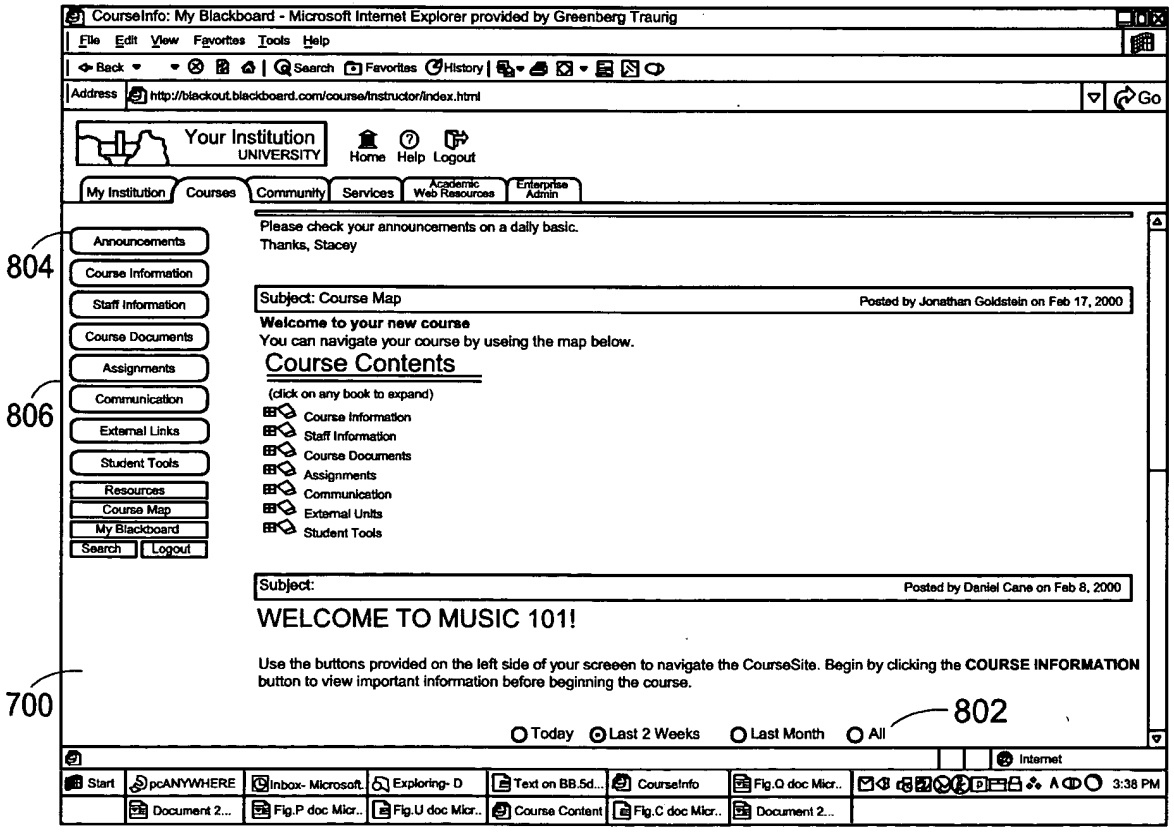

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://blackout.blackboard.com/course/instructor/index.html
Go
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
804
Announcements
Course Information
Staff Information
Course Documents
Assignments
806
Communication
External Links
Student Tools
Resources
Course Map
My Blackboard
Search Logout
700
Please check your announcements on a daily basic.
Thanks, Stacey
Subject: Course Map
Posted by Jonathan Goldstein on Feb 17, 2000
Welcome to your new course
You can navigate your course by useing the map below.
Course Contents
(click on any book to expand)
Course Information
Staff Information
Course Documents
Assignments
Communication
External Links
Student Tools
Subject:
Posted by Daniel Cane on Feb 8, 2000
WELCOME TO MUSIC 101!
Use the buttons provided on the left side of your screeen to navigate the CourseSite. Begin by clicking the COURSE INFORMATION button to view important information before beginning the course.
Today
Last 2 Weeks
Last Month
All
802
Internet
Start
pcANYWHERE
Inbox- Microsoft..
Exploring- D
Text on BB.5d...
CourseInfo
Fig.Q doc Micr..
3:38 PM
Document 2...
Fig.P doc Micr..
Fig.U doc Micr..
Course Content
Fig.C doc Micr..
Document 2...

FIG. 8

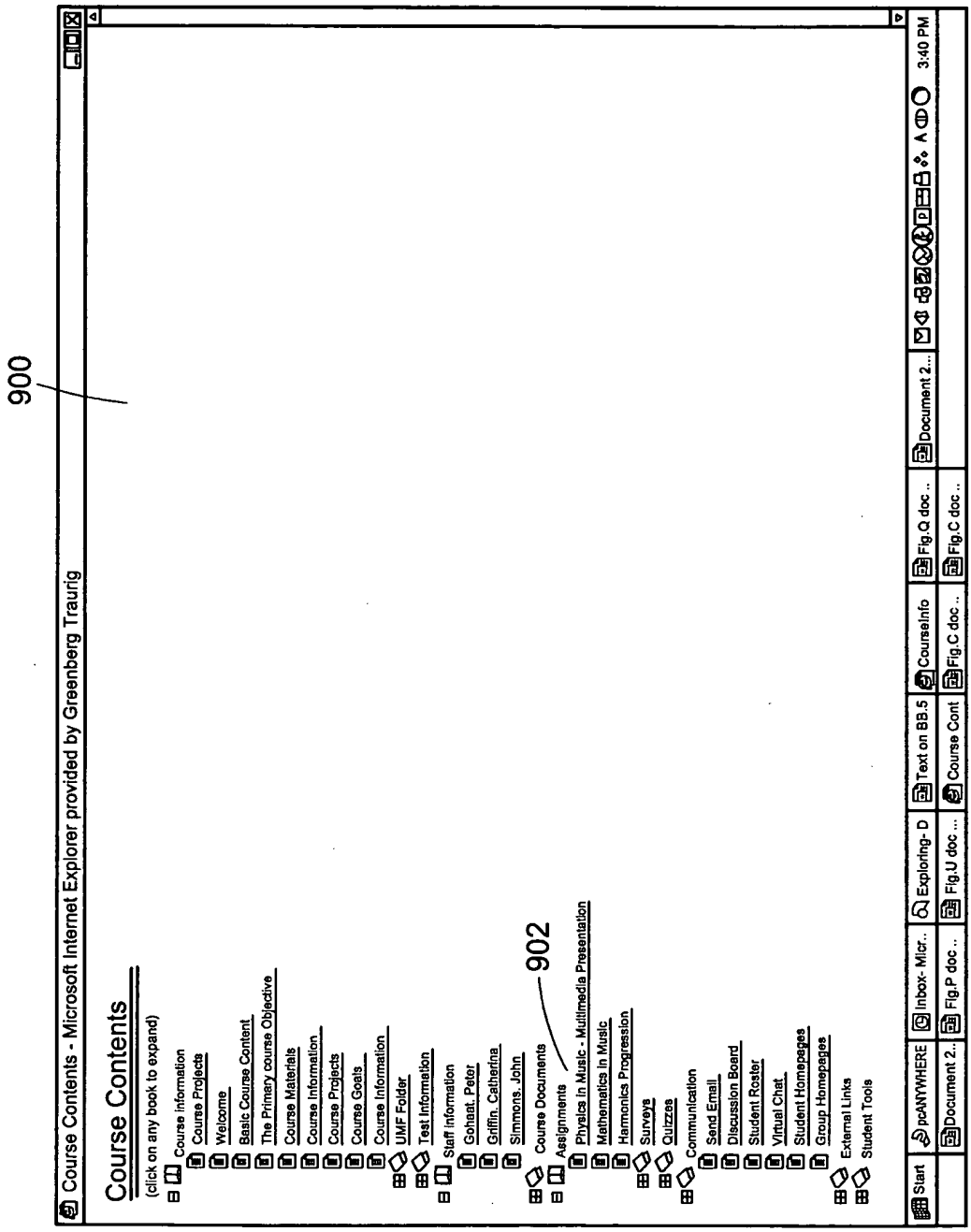

900
Course Contents - Microsoft Internet Explorer provided by Greenberg Traurig
Course Contents
(click on any book to expand)
Course Information
Course Projects
Welcome
Basic Course Content
The Primary course Objective
Course Materials
Course Information
Course Projects
Course Goals
Course Information
UMF Folder
Test Information
Staff Information
Gohast, Peter
Griffin, Catherine
Simmons, John
Course Documents
902
Assignments
Physics In Music - Multimedia Presentation
Mathematics In Music
Harmonics Progression
Surveys
Quizzes
Communication
Send Email
Discussion Board
Student Roster
Virtual Chat
Student Homepages
Group Homepages
External Links
Student Tools
Start
pcANYWHERE
Inbox - Micr...
Exploring - D
Text on BB.5
CourseInfo
Fig.Q doc ..
Document 2...
3:40 PM
Document 2..
Fig.P doc ..
Fig.U doc ...
Course Cont
Fig.C doc ..
Fig.C doc ..

FIG. 9

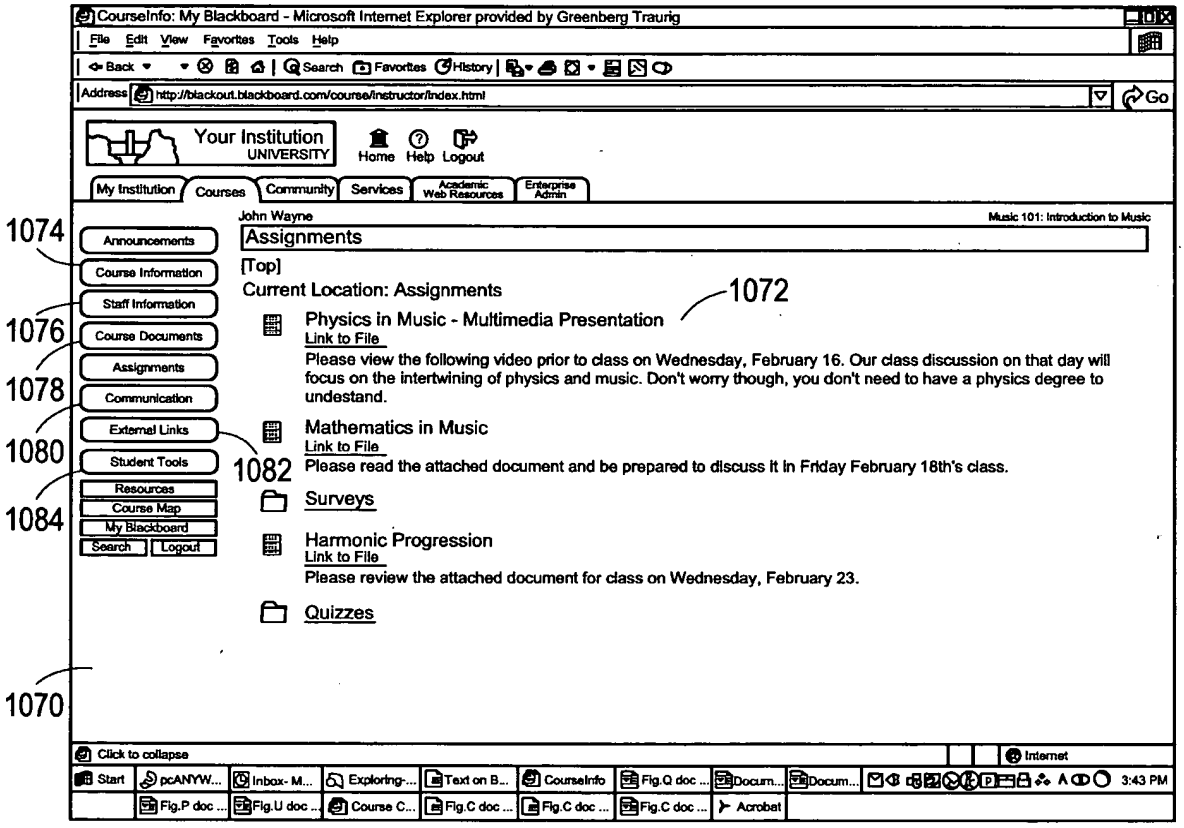
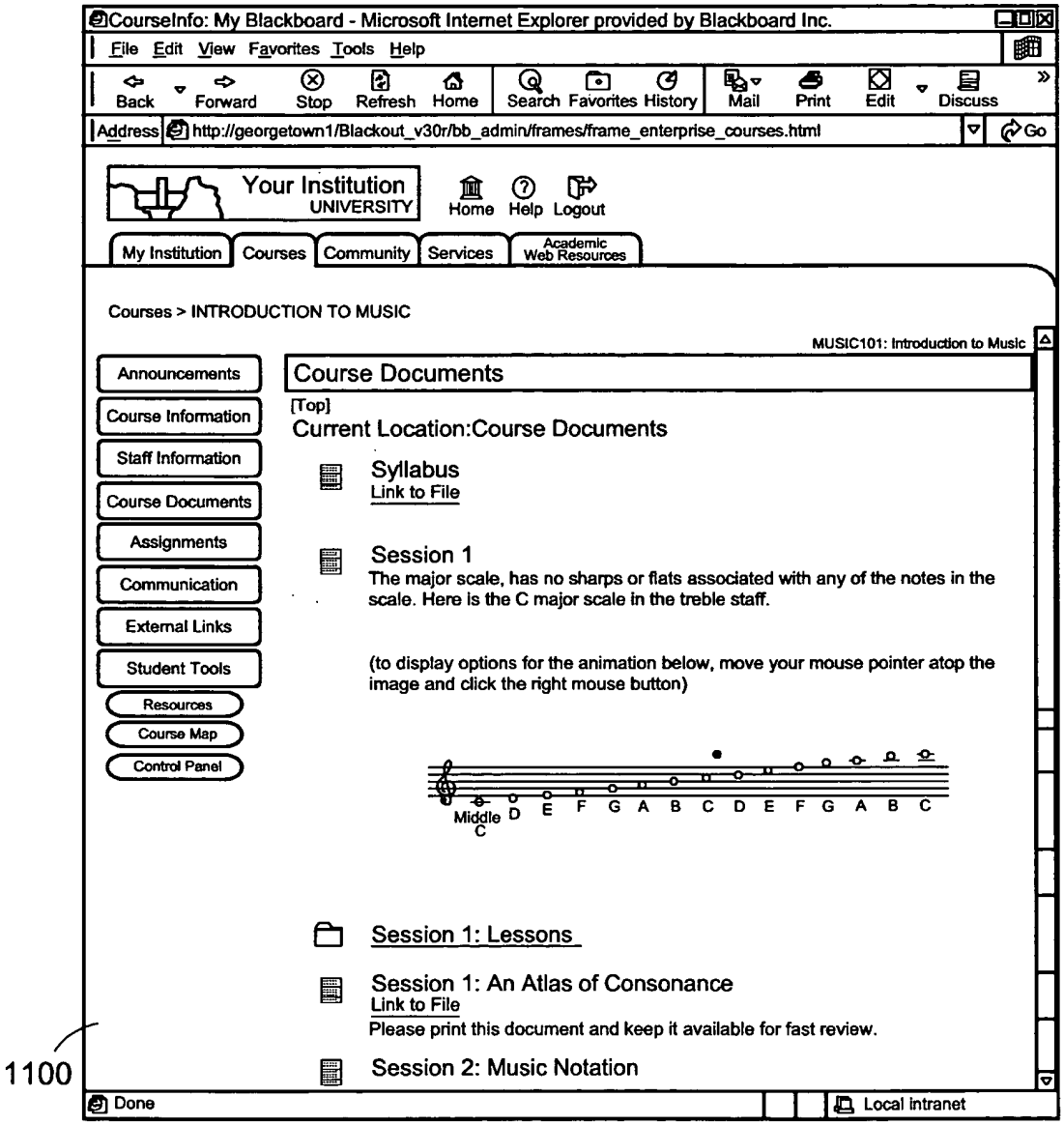

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://blackout.blackboard.com/course/instructor/index.html
Go
Your Institution
UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
John Wayne
Music 101: Introduction to Music
Announcements
Course Information
Staff Information
Course Documents
Assignments
Communication
External Links
Student Tools
Resources
Course Map
My Blackboard
Search Logout
Assignments
[Top]
Current Location: Assignments
Physics in Music - Multimedia Presentation
Link to File
Please view the following video prior to class on Wednesday, February 16. Our class discussion on that day will focus on the intertwining of physics and music. Don't worry though, you don't need to have a physics degree to undestand.
Mathematics in Music
Link to File
Please read the attached document and be prepared to discuss it in Friday February 18th's class.
Surveys
Harmonic Progression
Link to File
Please review the attached document for class on Wednesday, February 23.
Quizzes
1074
1076
1078
1080
1082
1084
1072
1070
Click to collapse
Internet
Start
3:43 PM
Acrobat

FIG. 10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Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss
Address http://georgetown1/Blackout_v30r/bb_admin/frames/frame_enterprise_courses.html
Go
Your Institution
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Home Help Logout
My Institution Courses Community Services Academic Web Resources
Courses > INTRODUCTION TO MUSIC
MUSIC101: Introduction to Music
Announcements
Course Information
Staff Information
Course Documents
Assignments
Communication
External Links
Student Tools
Resources
Course Map
Control Panel
Course Documents
[Top]
Current Location:Course Documents
Syllabus
Link to File
Session 1
The major scale, has no sharps or flats associated with any of the notes in the scale. Here is the C major scale in the treble staff.
(to display options for the animation below, move your mouse pointer atop the image and click the right mouse button)
Middle C D E F G A B C D E F G A B C
Session 1: Lessons
Session 1: An Atlas of Consonance
Link to File
Please print this document and keep it available for fast review.
Session 2: Music Notation
Done
Local intranet
1100

FIG. 11

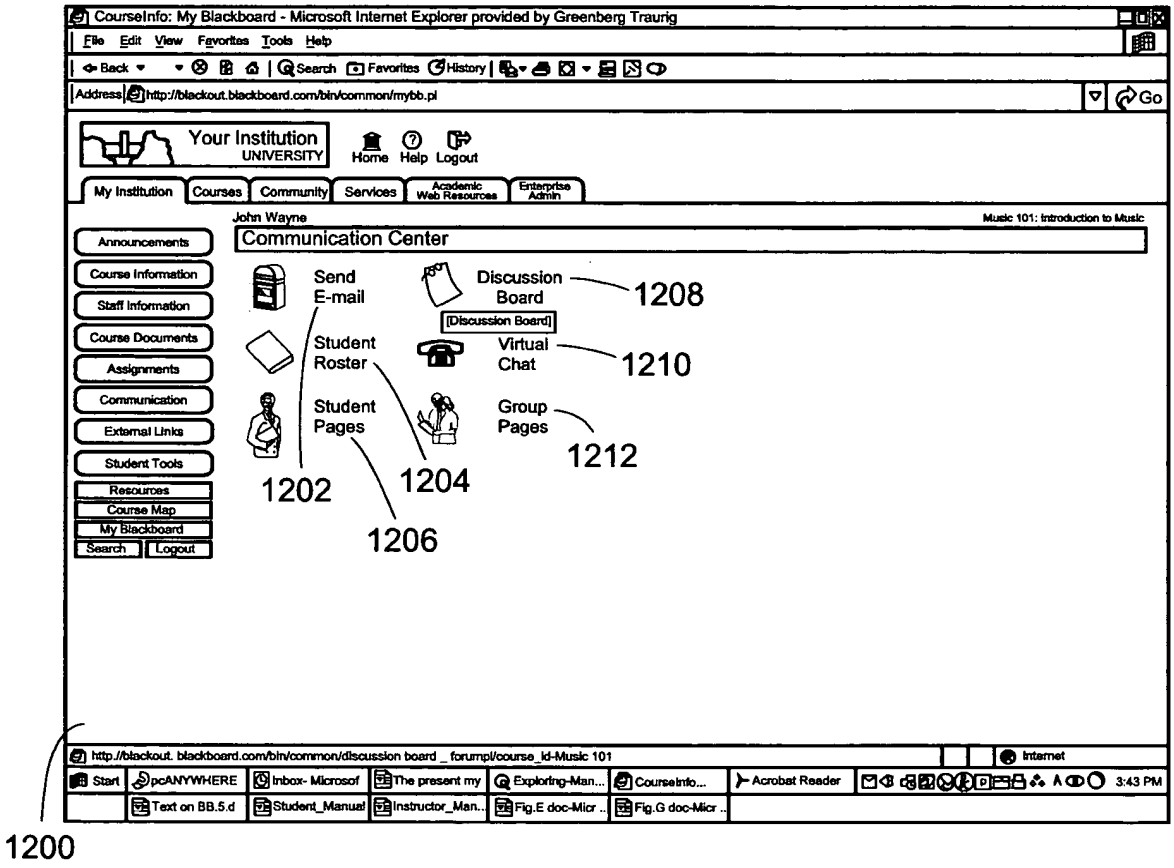

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://blackout.blackboard.com/bin/common/mybb.pl
Go
Your Institution
UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
John Wayne
Music 101: Introduction to Music
Communication Center
Announcements
Course Information
Staff Information
Course Documents
Assignments
Communication
External Links
Student Tools
Resources
Course Map
My Blackboard
Search Logout
Send E-mail
Discussion Board
[Discussion Board]
Student Roster
Virtual Chat
Student Pages
Group Pages
1202
1204
1206
1208
1210
1212
1200
http://blackout. blackboard.com/bin/common/discussion board _ forumpl/course_id-Music 101
Internet
Start
pcANYWHERE
Inbox- Microsof
The present my
Exploring-Man...
CourseInfo...
Acrobat Reader
3:43 PM
Text on BB.5.d
Student_Manual
Instructor_Man..
Fig.E doc-Micr ..
Fig.G doc-Micr ..

FIG. 12

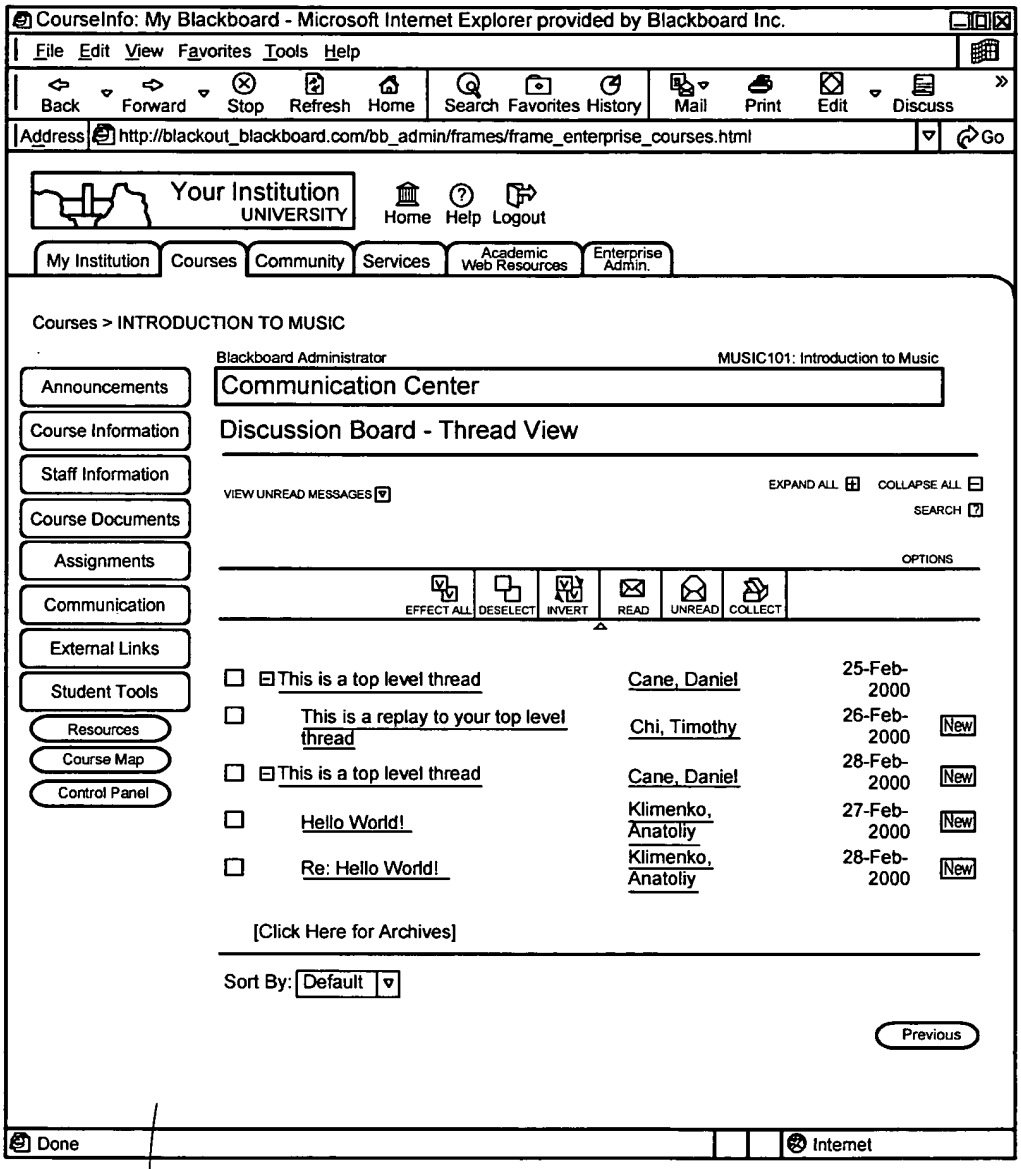

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss
Address http://blackout_blackboard.com/bb_admin/frames/frame_enterprise_courses.html
Go
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin.
Courses > INTRODUCTION TO MUSIC
Blackboard Administrator
MUSIC101: Introduction to Music
Announcements
Course Information
Staff Information
Course Documents
Assignments
Communication
External Links
Student Tools
Resources
Course Map
Control Panel
Communication Center
Discussion Board - Thread View
VIEW UNREAD MESSAGES
EXPAND ALL
COLLAPSE ALL
SEARCH
OPTIONS
EFFECT ALL DESELECT INVERT READ UNREAD COLLECT
This is a top level thread Cane, Daniel 25-Feb-2000
This is a replay to your top level thread Chi, Timothy 26-Feb-2000 New
This is a top level thread Cane, Daniel 28-Feb-2000 New
Hello World! Klimenko, Anatoliy 27-Feb-2000 New
Re: Hello World! Klimenko, Anatoliy 28-Feb-2000 New
[Click Here for Archives]
Sort By: Default
Previous
Done
Internet
1300

FIG. 13

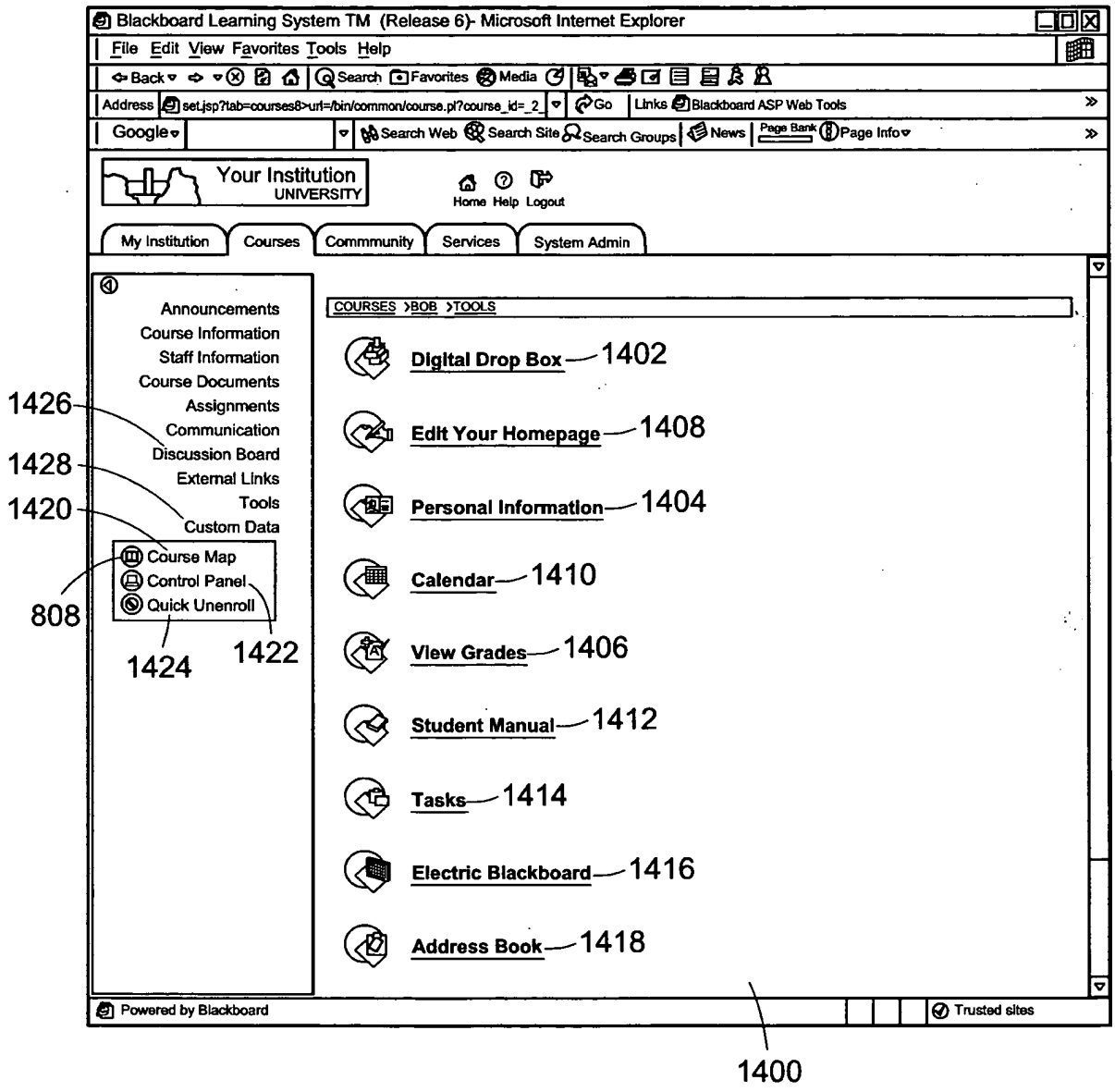

Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address set.jsp?tab=courses8>url=/bin/common/course.pl?course_id=_2_ Go Links Blackboard ASP Web Tools
Google Search Web Search Site Search Groups News Page Bank Page Info
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Commmunity Services System Admin
Announcements
Course Information
Staff Information
Course Documents
Assignments
Communication
Discussion Board
External Links
Tools
Custom Data
Course Map
Control Panel
Quick Unenroll
COURSES >BOB >TOOLS
Digital Drop Box 1402
Edit Your Homepage 1408
Personal Information 1404
Calendar 1410
View Grades 1406
Student Manual 1412
Tasks 1414
Electric Blackboard 1416
Address Book 1418
Powered by Blackboard
Trusted sites
1426
1428
1420
808
1424
1422
1400

FIG. 14

John Wayne
Student Tools

Music 101: Introduction to Music

Student Drop Box

Use your student drop box to submit files to your instructor. Also, your instructor can return your files to you with comments attached.

Current Files in your DropBox 1508

Note: If you want to save a file, right click on the Link Name and choose *Save Link As*

File Name	Link Name	File Size	Status
none	none	none	none

[Remove Files] 1510

Add File to DropBox

Click the *Browse* button to select the file to attach from your computer.
Be sure to specify a linkname for your file,

File to Upload: 1502 1504 Browse...

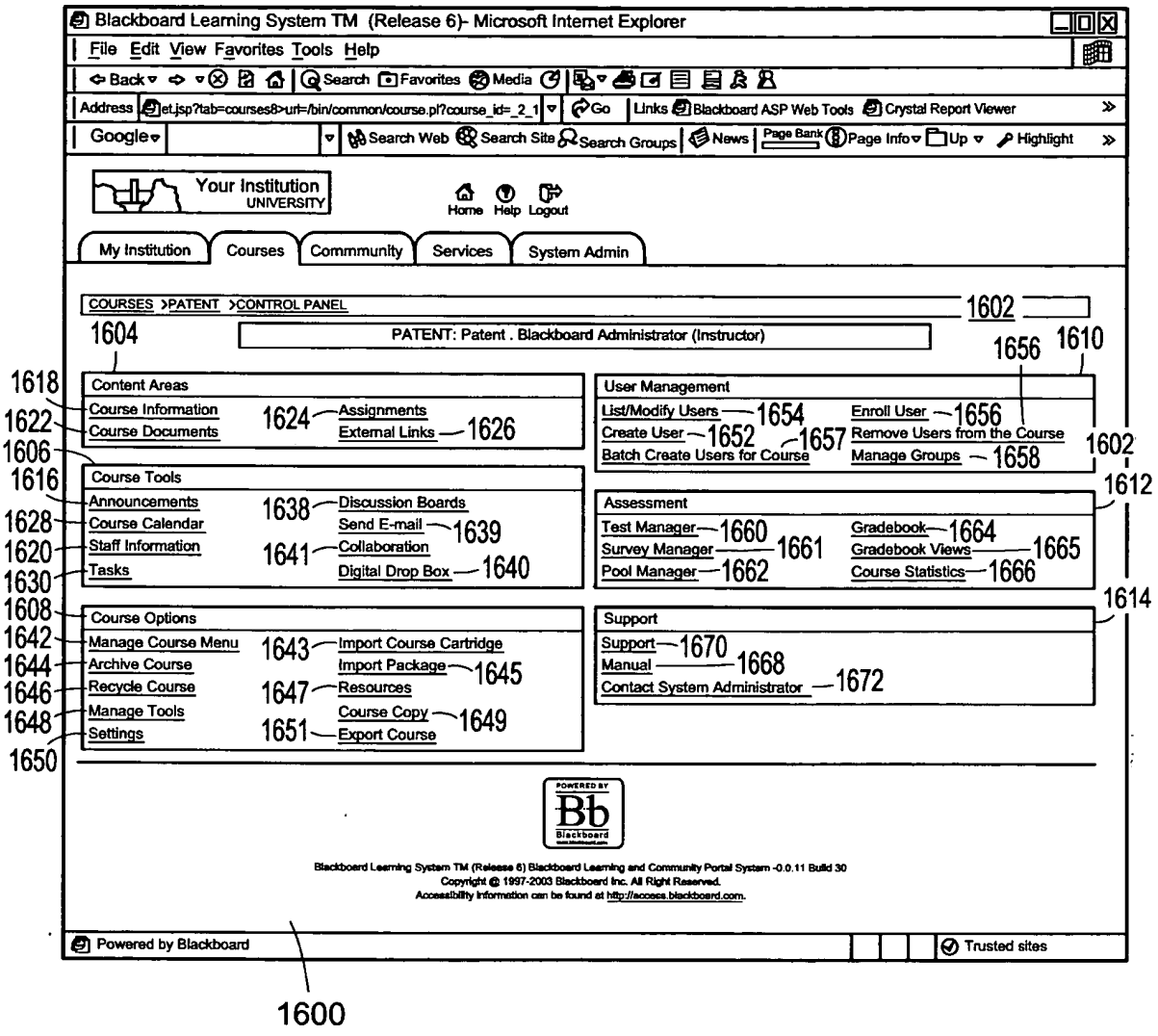
Name of Link to File:
(Example: *Homework One, Assignment One*)

Send File to Instructor 1506

Back

1500

FIG. 15


Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address et.jsp?tab=courses8>url=/bin/common/course.pl?course_id=_2_1 Go Links Blackboard ASP Web Tools Crystal Report Viewer
Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Commmunity Services System Admin
COURSES >PATENT >CONTROL PANEL
1602
1604
PATENT: Patent . Blackboard Administrator (Instructor)
1656 1610
1618
Content Areas
Course Information
1622
Course Documents
1624
Assignments
External Links 1626
1606
Course Tools
1616
Announcements
1628
Course Calendar
1620
Staff Information
1630
Tasks
1638
Discussion Boards
Send E-mail 1639
1641
Collaboration
Digital Drop Box 1640
1608
Course Options
1642
Manage Course Menu
1644
Archive Course
1646
Recycle Course
1648
Manage Tools
1650
Settings
1643
Import Course Cartridge
Import Package 1645
1647
Resources
Course Copy 1649
1651
Export Course
User Management
List/Modify Users 1654
Create User 1652
1657
Batch Create Users for Course
Enroll User 1656
Remove Users from the Course
Manage Groups 1658
1602
1612
Assessment
Test Manager 1660
Survey Manager
1661
Pool Manager 1662
Gradebook 1664
Gradebook Views 1665
Course Statistics 1666
1614
Support
Support 1670
Manual 1668
Contact System Administrator 1672
Blackboard Learning System TM (Release 6) Blackboard Learning and Community Portal System -0.0.11 Build 30
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Accessibility information can be found at http://access.blackboard.com.
Powered by Blackboard
Trusted sites
1600

FIG. 16

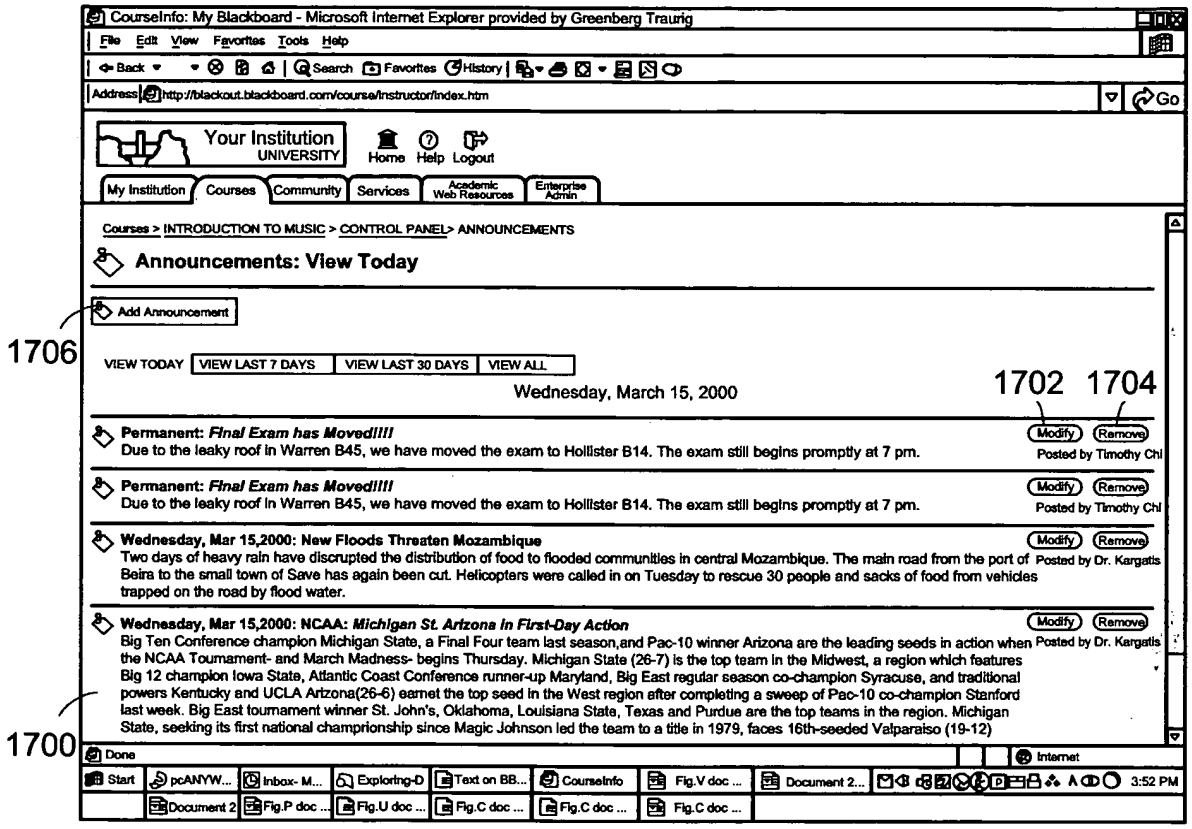

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://blackout.blackboard.com/course/instructor/index.htm
Go
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
Courses > INTRODUCTION TO MUSIC > CONTROL PANEL > ANNOUNCEMENTS
Announcements: View Today
Add Announcement
1706
VIEW TODAY VIEW LAST 7 DAYS VIEW LAST 30 DAYS VIEW ALL
Wednesday, March 15, 2000
1702 1704
Permanent: Final Exam has Moved!!!!
Due to the leaky roof in Warren B45, we have moved the exam to Hollister B14. The exam still begins promptly at 7 pm.
Modify Remove
Posted by Timothy Chi
Permanent: Final Exam has Moved!!!!
Due to the leaky roof in Warren B45, we have moved the exam to Hollister B14. The exam still begins promptly at 7 pm.
Modify Remove
Posted by Timothy Chi
Wednesday, Mar 15,2000: New Floods Threaten Mozambique
Two days of heavy rain have discrupted the distribution of food to flooded communities in central Mozambique. The main road from the port of Beira to the small town of Save has again been cut. Helicopters were called in on Tuesday to rescue 30 people and sacks of food from vehicles trapped on the road by flood water.
Modify Remove
Posted by Dr. Kargatis
Wednesday, Mar 15,2000: NCAA: Michigan St. Arizona in First-Day Action
Big Ten Conference champion Michigan State, a Final Four team last season,and Pac-10 winner Arizona are the leading seeds in action when the NCAA Tournament- and March Madness- begins Thursday. Michigan State (26-7) is the top team in the Midwest, a region which features Big 12 champion Iowa State, Atlantic Coast Conference runner-up Maryland, Big East regular season co-champion Syracuse, and traditional powers Kentucky and UCLA Arizona(26-6) earnet the top seed in the West region after completing a sweep of Pac-10 co-champion Stanford last week. Big East tournament winner St. John's, Oklahoma, Louisiana State, Texas and Purdue are the top teams in the region. Michigan State, seeking its first national champrionship since Magic Johnson led the team to a title in 1979, faces 16th-seeded Valparaiso (19-12)
Modify Remove
Posted by Dr. Kargatis
1700
Done
Internet
Start pcANYW... Inbox- M... Exploring-D Text on BB... CourseInfo Fig.V doc ... Document 2... 3:52 PM
Document 2 Fig.P doc ... Fig.U doc ... Fig.C doc ... Fig.C doc ... Fig.C doc ...

FIG. 17

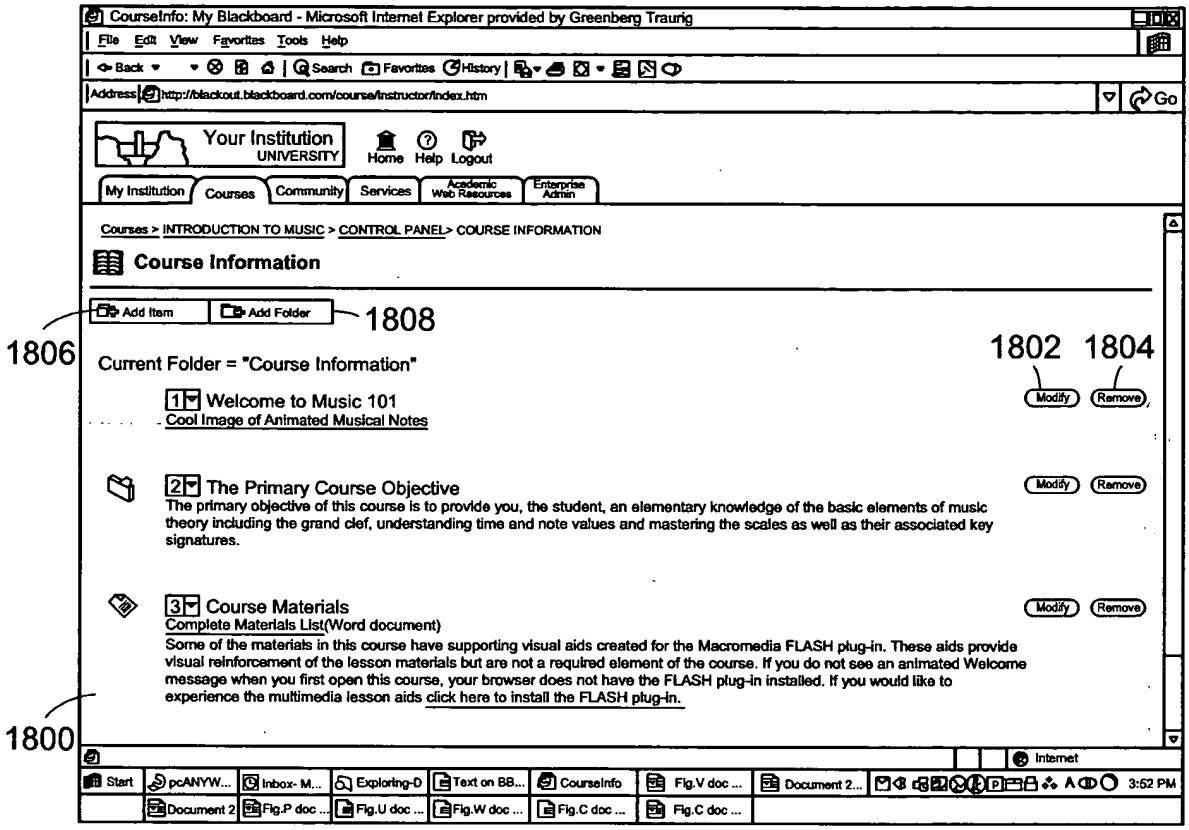

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://blackout.blackboard.com/course/instructor/index.htm
Go
Your Institution
UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
Courses > INTRODUCTION TO MUSIC > CONTROL PANEL> COURSE INFORMATION
Course Information
Add Item
Add Folder
1808
1806
1802
1804
Current Folder = "Course Information"
1 Welcome to Music 101
Cool Image of Animated Musical Notes
Modify
Remove
2 The Primary Course Objective
The primary objective of this course is to provide you, the student, an elementary knowledge of the basic elements of music theory including the grand clef, understanding time and note values and mastering the scales as well as their associated key signatures.
Modify
Remove
3 Course Materials
Complete Materials List(Word document)
Some of the materials in this course have supporting visual aids created for the Macromedia FLASH plug-in. These aids provide visual reinforcement of the lesson materials but are not a required element of the course. If you do not see an animated Welcome message when you first open this course, your browser does not have the FLASH plug-in installed. If you would like to experience the multimedia lesson aids click here to install the FLASH plug-in.
Modify
Remove
1800
Internet
Start
pcANYW...
Inbox- M...
Exploring-D
Text on BB...
CourseInfo
Fig.V doc ...
Document 2...
3:52 PM
Document 2
Fig.P doc ...
Fig.U doc ...
Fig.W doc ...
Fig.C doc ...
Fig.C doc ...

FIG. 18

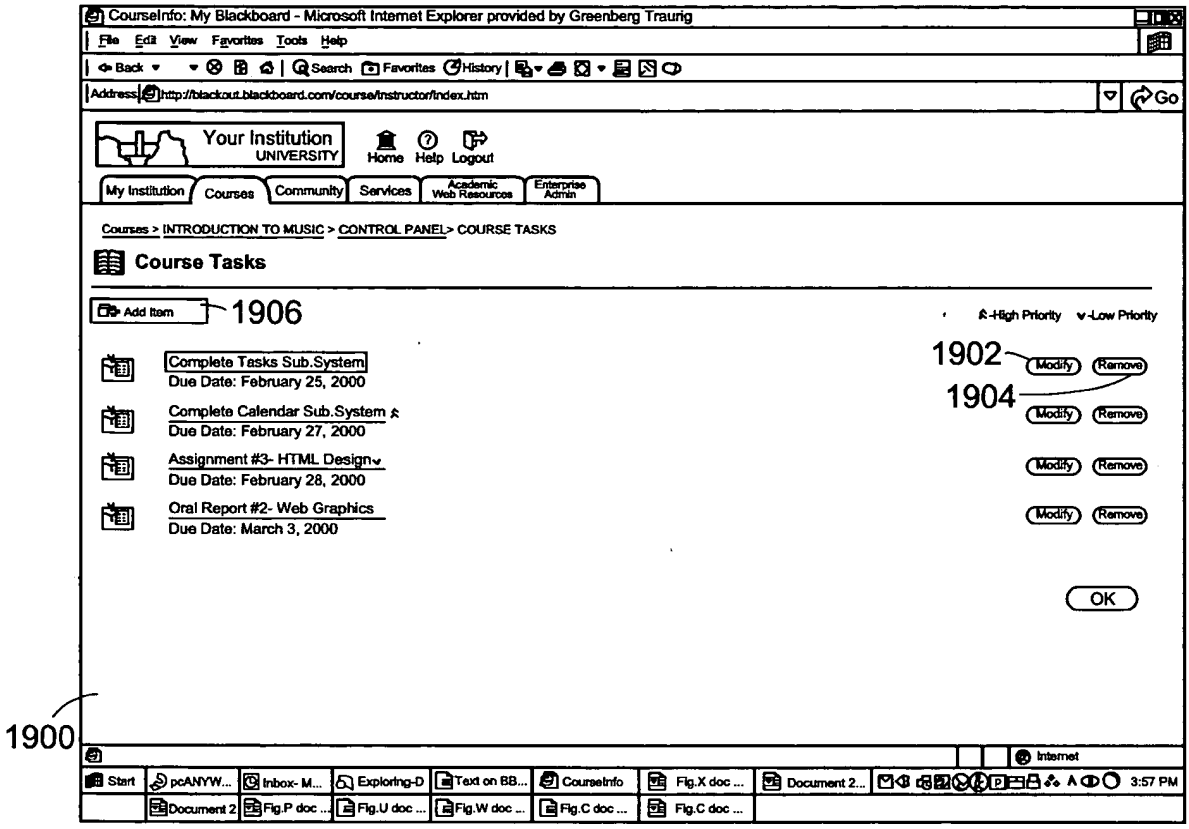

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://blackout.blackboard.com/course/instructor/index.htm
Go
Your Institution
UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
Courses > INTRODUCTION TO MUSIC > CONTROL PANEL> COURSE TASKS
Course Tasks
Add Item
1906
^-High Priority v-Low Priority
1902
1904
Complete Tasks Sub.System
Due Date: February 25, 2000
Complete Calendar Sub.System
Due Date: February 27, 2000
Assignment #3- HTML Design
Due Date: February 28, 2000
Oral Report #2- Web Graphics
Due Date: March 3, 2000
Modify
Remove
OK
1900
Internet
Start
pcANYW...
Inbox- M...
Exploring-D
Text on BB...
CourseInfo
Fig.X doc ...
Document 2...
3:57 PM
Document 2
Fig.P doc ...
Fig.U doc ...
Fig.W doc ...
Fig.C doc ...
Fig.C doc ...

FIG. 19

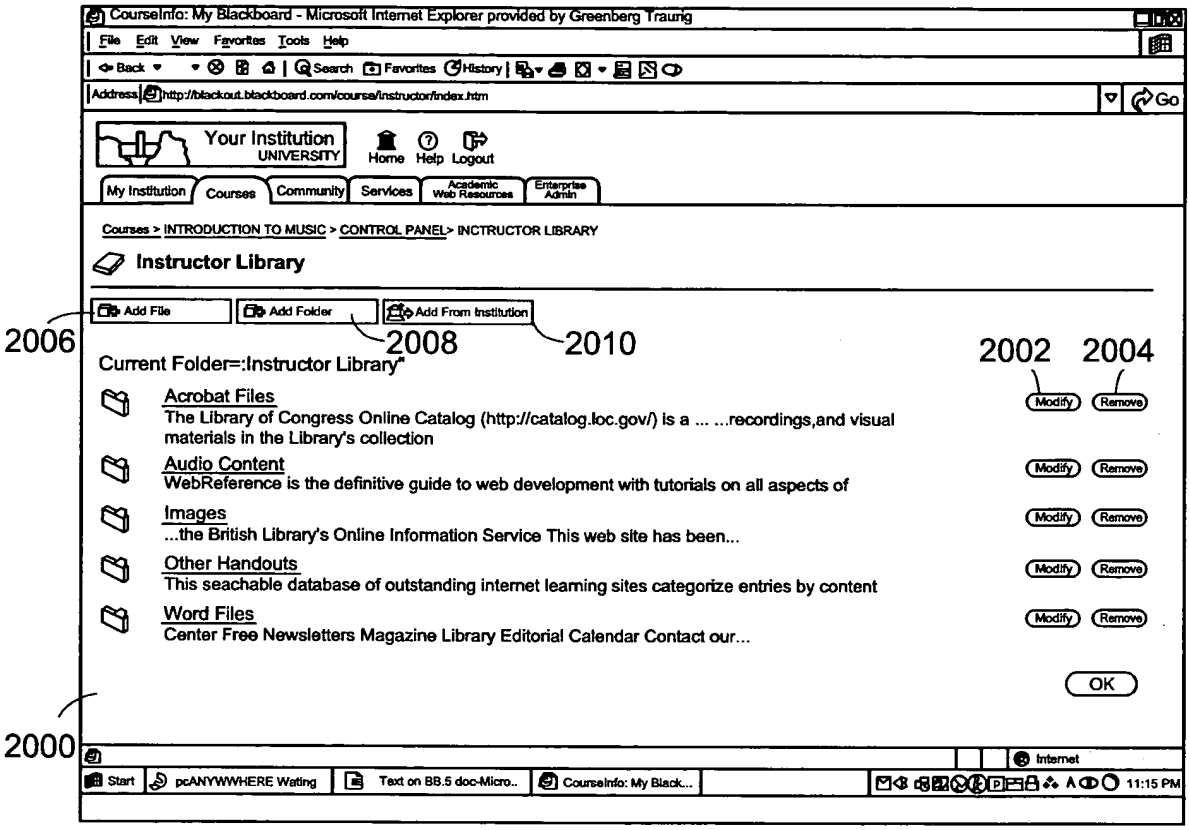
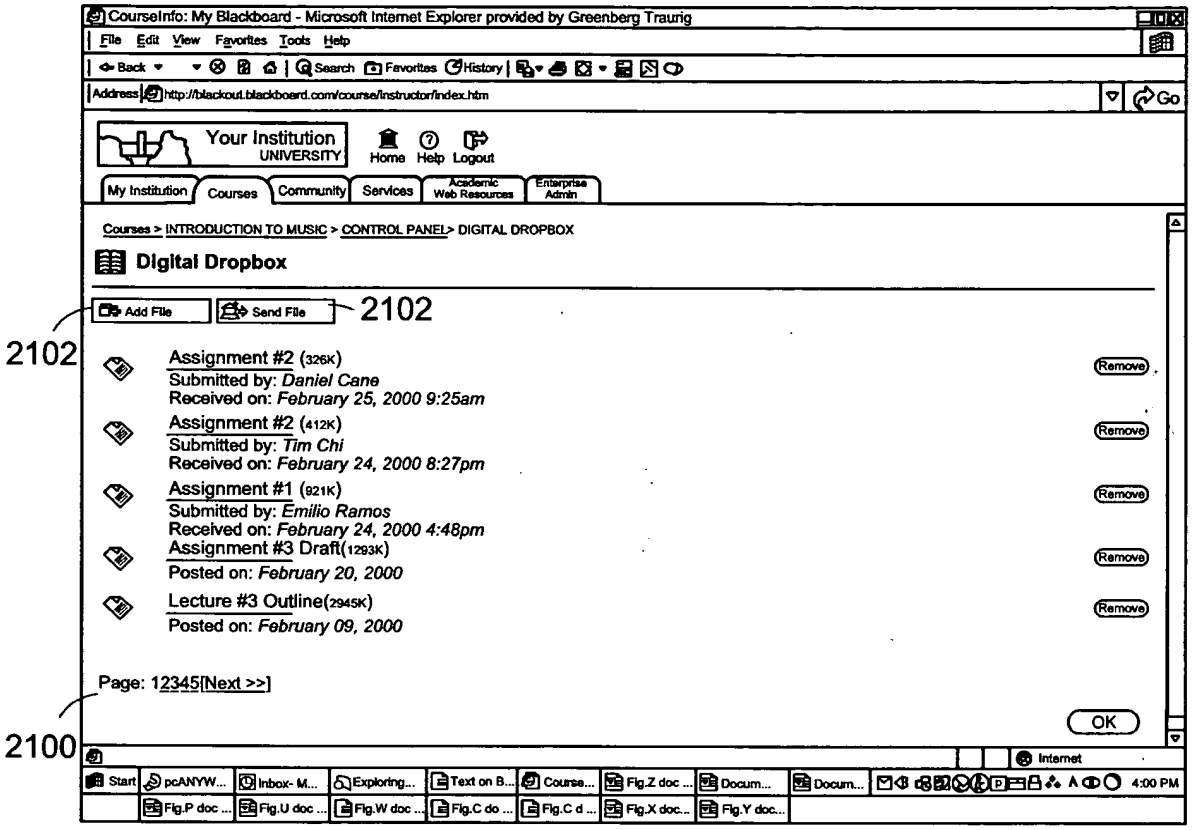

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://blackout.blackboard.com/course/instructor/index.htm
Go
Your Institution
UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
Courses > INTRODUCTION TO MUSIC > CONTROL PANEL> INCTRUCTOR LIBRARY
Instructor Library
Add File
Add Folder
Add From Institution
2006
2008
2010
2002
2004
Current Folder=:Instructor Library
Acrobat Files
The Library of Congress Online Catalog (http://catalog.loc.gov/) is a ... ...recordings,and visual materials in the Library's collection
Audio Content
WebReference is the definitive guide to web development with tutorials on all aspects of
Images
...the British Library's Online Information Service This web site has been...
Other Handouts
This seachable database of outstanding internet learning sites categorize entries by content
Word Files
Center Free Newsletters Magazine Library Editorial Calendar Contact our...
Modify
Remove
OK
2000
Internet
Start
pcANYWWHERE Waiting
Text on BB.5 doc-Micro..
CourseInfo: My Black...
11:15 PM

FIG. 20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File Edit View Favorites Tools Help
Back Search Favorites History
Address http://blackout.blackboard.com/course/instructor/index.htm
Go
Your Institution
UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
Courses > INTRODUCTION TO MUSIC > CONTROL PANEL> DIGITAL DROPBOX
Digital Dropbox
Add File
Send File
2102
2102
Assignment #2 (326K)
Submitted by: Daniel Cane
Received on: February 25, 2000 9:25am
Remove
Assignment #2 (412K)
Submitted by: Tim Chi
Received on: February 24, 2000 8:27pm
Remove
Assignment #1 (821K)
Submitted by: Emilio Ramos
Received on: February 24, 2000 4:48pm
Remove
Assignment #3 Draft(1293K)
Posted on: February 20, 2000
Remove
Lecture #3 Outline(2945K)
Posted on: February 09, 2000
Remove
Page: 12345[Next >>]
OK
2100
Internet
Start
pcANYW...
Inbox- M...
Exploring...
Text on B...
Course...
Fig.Z doc ...
Docum...
Docum...
4:00 PM
Fig.P doc ...
Fig.U doc ...
Fig.W doc ...
Fig.C do ...
Fig.C d ...
Fig.X doc...
Fig.Y doc...

FIG. 21

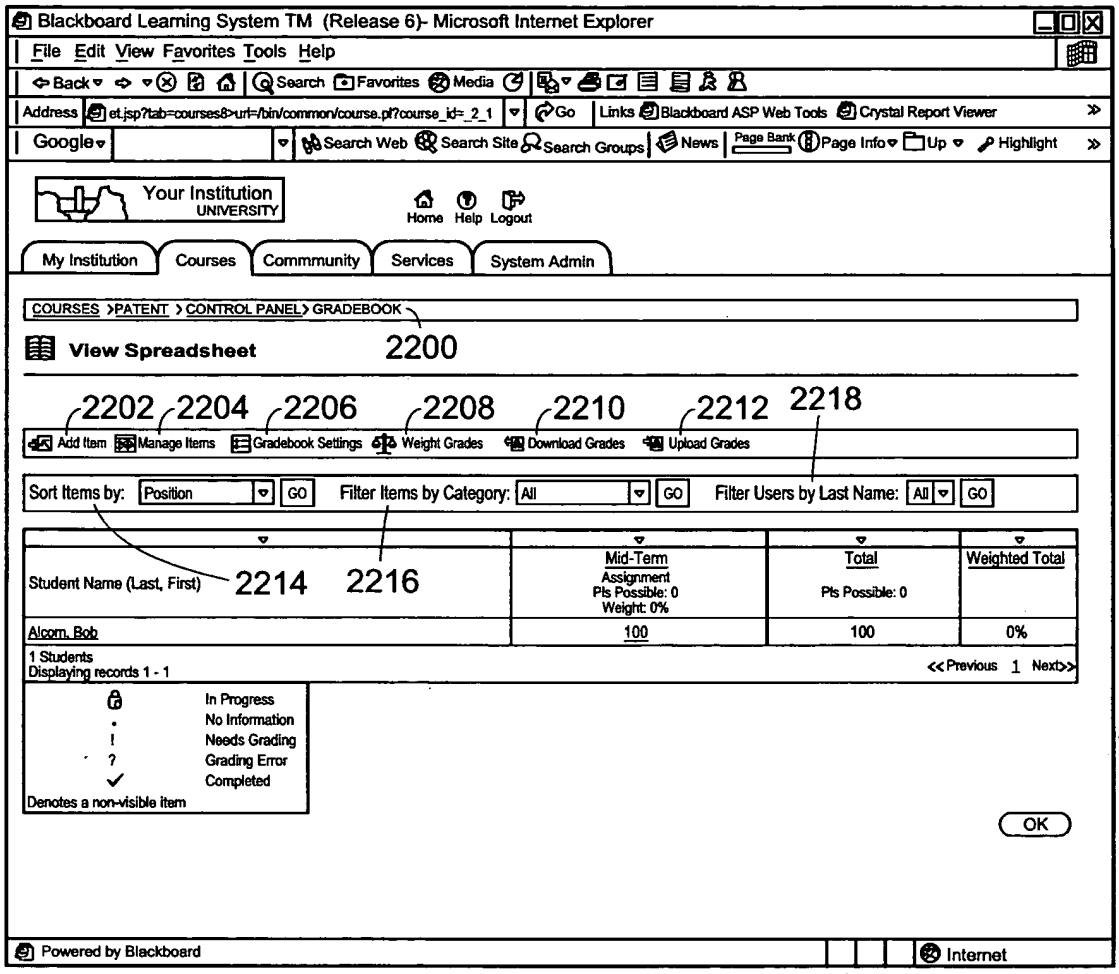

Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address et.jsp?tab=courses&>url=/bin/common/course.pl?course_id=_2_1 Go Links Blackboard ASP Web Tools Crystal Report Viewer
Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Commmunity Services System Admin
COURSES >PATENT > CONTROL PANEL> GRADEBOOK
View Spreadsheet
2200
2202 2204 2206 2208 2210 2212 2218
Add Item Manage Items Gradebook Settings Weight Grades Download Grades Upload Grades
Sort Items by: Position GO Filter Items by Category: All GO Filter Users by Last Name: All GO
Student Name (Last, First)
2214
2216
Mid-Term
Assignment
Pts Possible: 0
Weight: 0%
Total
Pts Possible: 0
Weighted Total
Alcorn, Bob
100
100
0%
1 Students
Displaying records 1 - 1
<<Previous 1 Next>>
In Progress
No Information
Needs Grading
Grading Error
Completed
Denotes a non-visible item
OK
Powered by Blackboard
Internet

FIG. 22

COURSES > INTRODUCTION TO MUSIC > CONTROL PANEL > COURSE STATISTIC > REPORT

Course Statistics

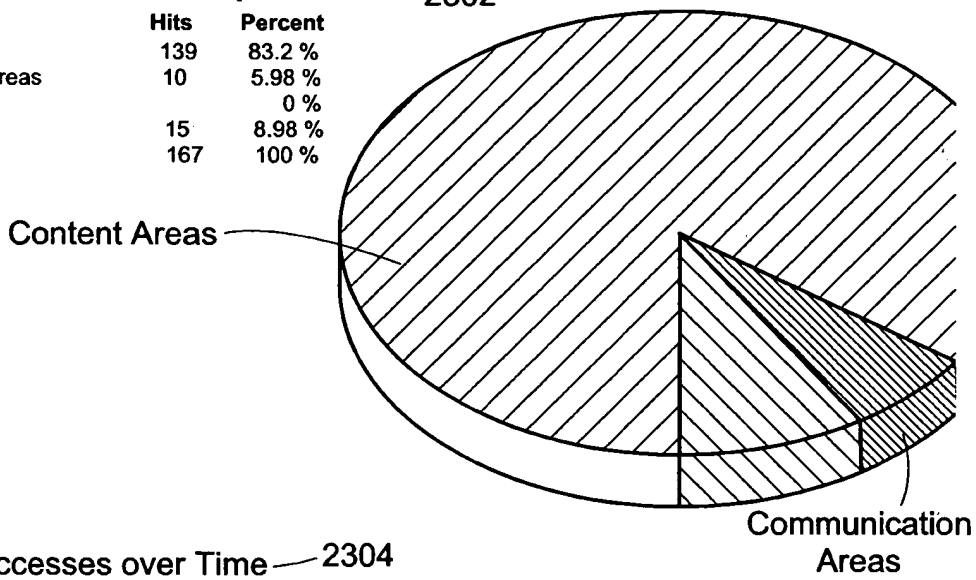
Statistics Generated on Thursday, February 24, 2000 11:26:28AM 2300

Note: You may have to reload/refresh this page for the images to be correct.

Total Number of Accesses per Area — 2302
Number of Accesses over Time — 2304
User Accesses per Hour of the Day — 2306
User Accesses per Day of the Week — 2308
Total Accesses by User — 2310

Total Number of Accesses per Area — 2302

Area Name	Hits	Percent
Content Areas	139	83.2 %
Communication Areas	10	5.98 %
Group Areas		0 %
Student Areas	15	8.98 %
Total	167	100 %



Number of Accesses over Time — 2304

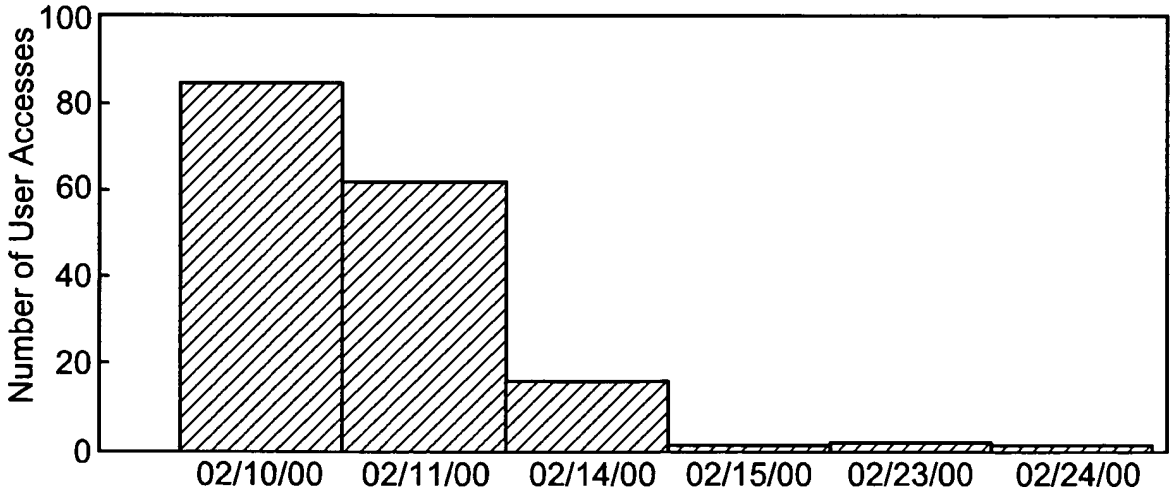


FIG. 23A

User Accesses by Hour of the Day 2306

Hour of the Day	Hits	Percent
8	1	0.59 %
9	7	4.19%
10	94	56.2 %
11	15	8.98 %
12	4	2.39 %
13	22	13.1 %
15	1	0.59 %
16	3	1.79 %
17	14	8.38 %
22	3	1.79 %
23	3	1.79 %
Total	167	100 %

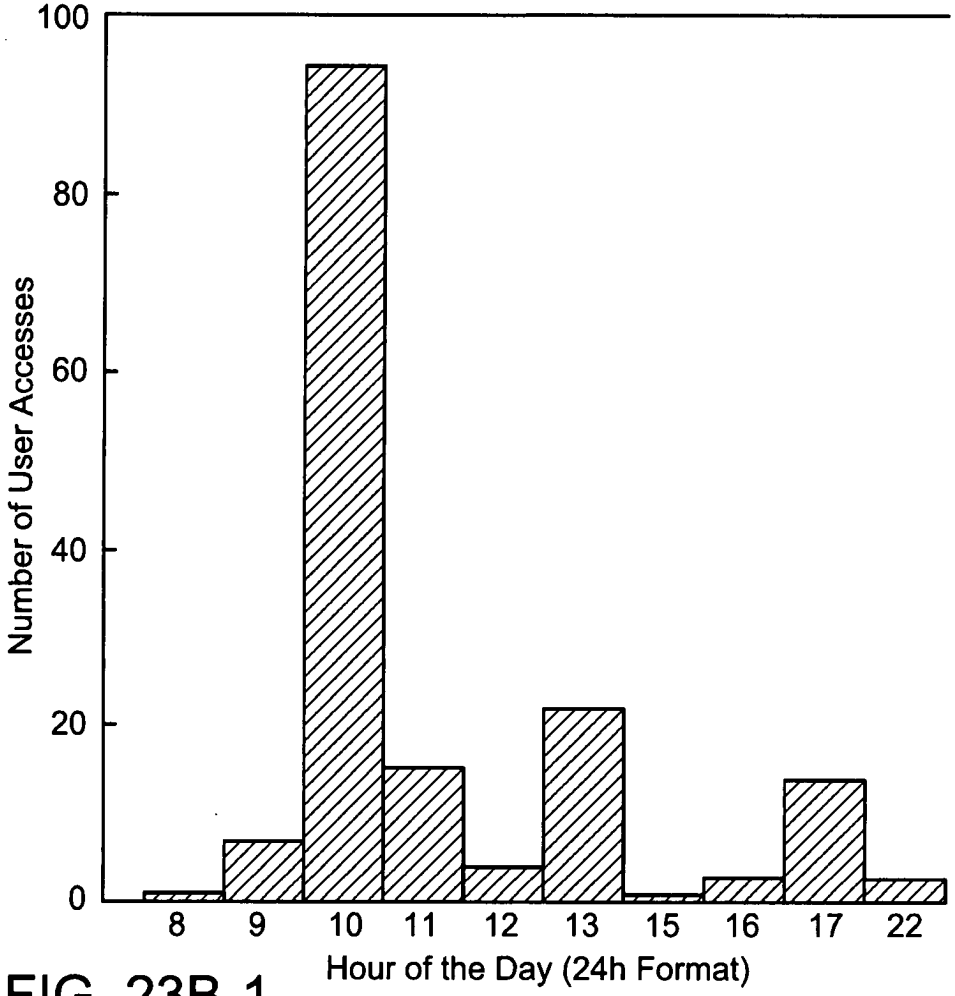


FIG. 23B-1

Fig. 23B-1

Fig. 23B-2

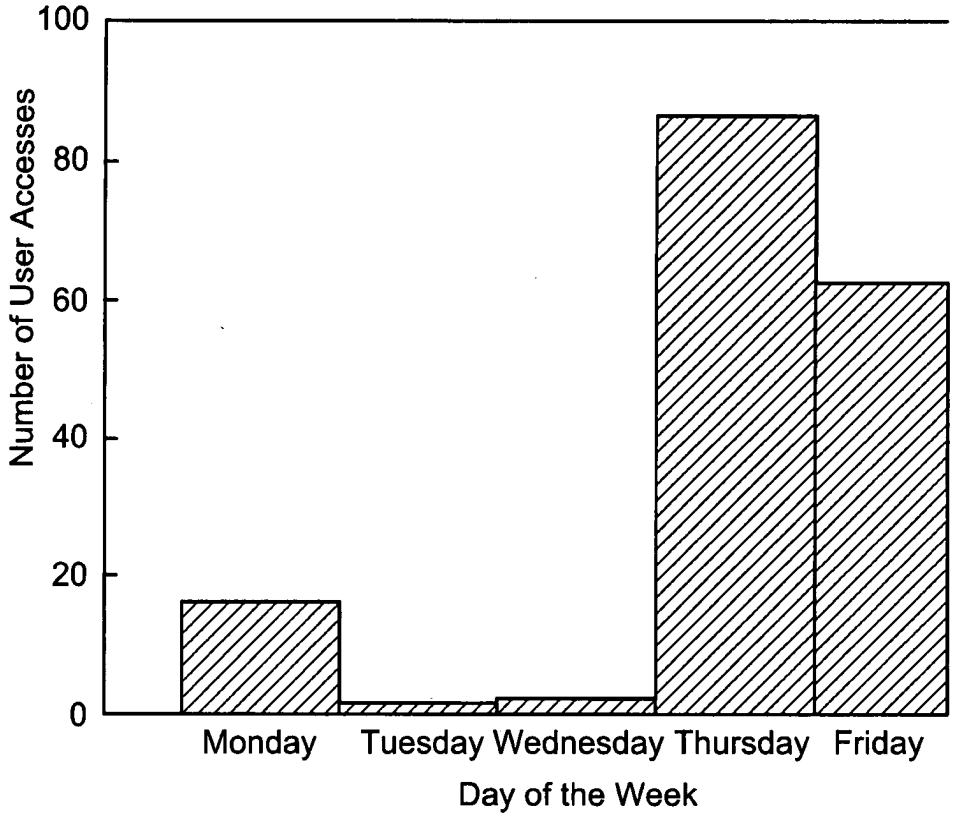
2300

FIG. 23B

2308

User Accesses by Day of the Week

Day of the Week	Hits	Percent
Monday	16	9.58 %
Tuesday	1	0.59 %
Wednesday	2	1.19 %
Thursday	86	51.4 %
Friday	62	37.1 %
Total	167	100 %



2300

FIG. 23B-2

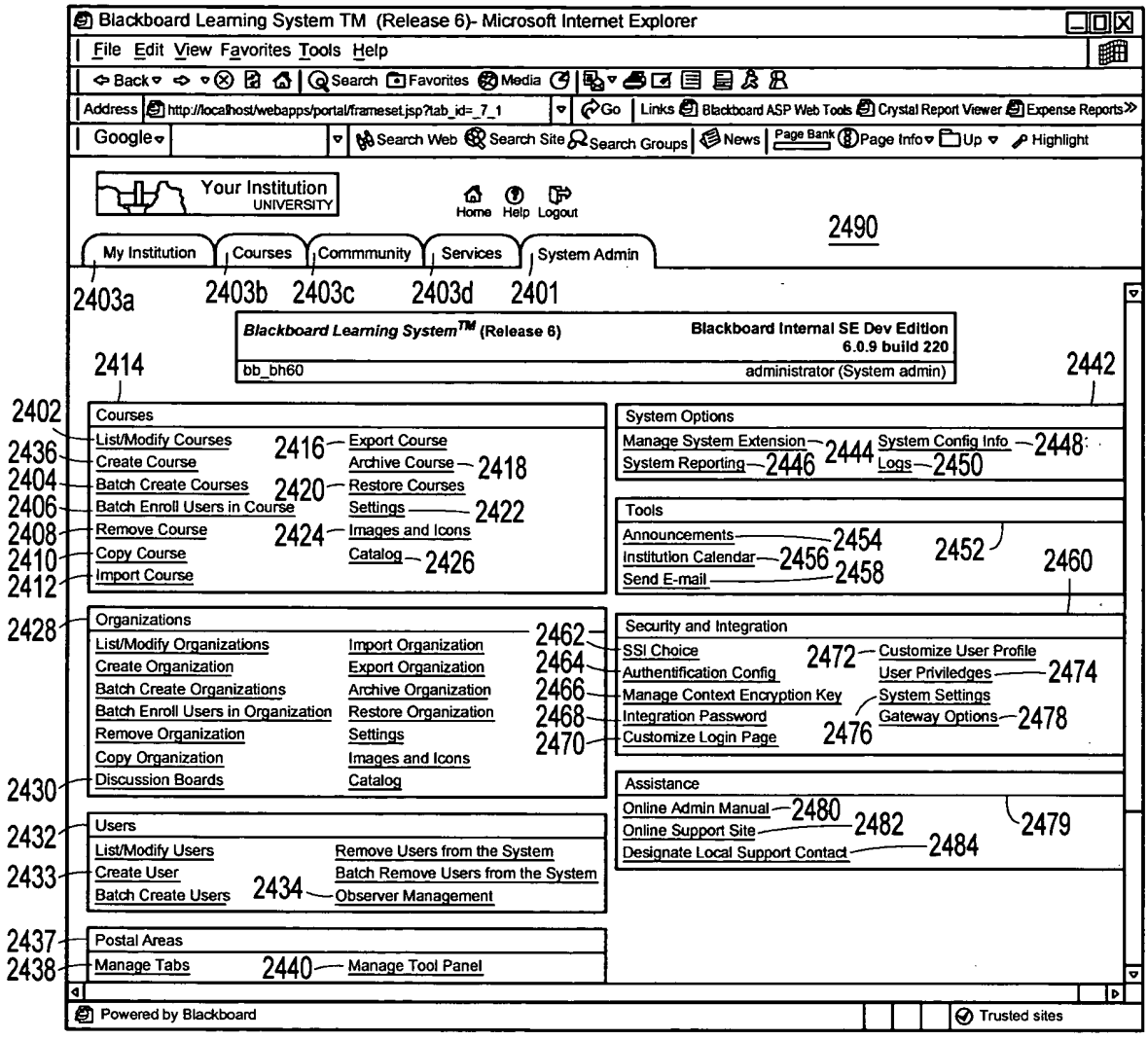
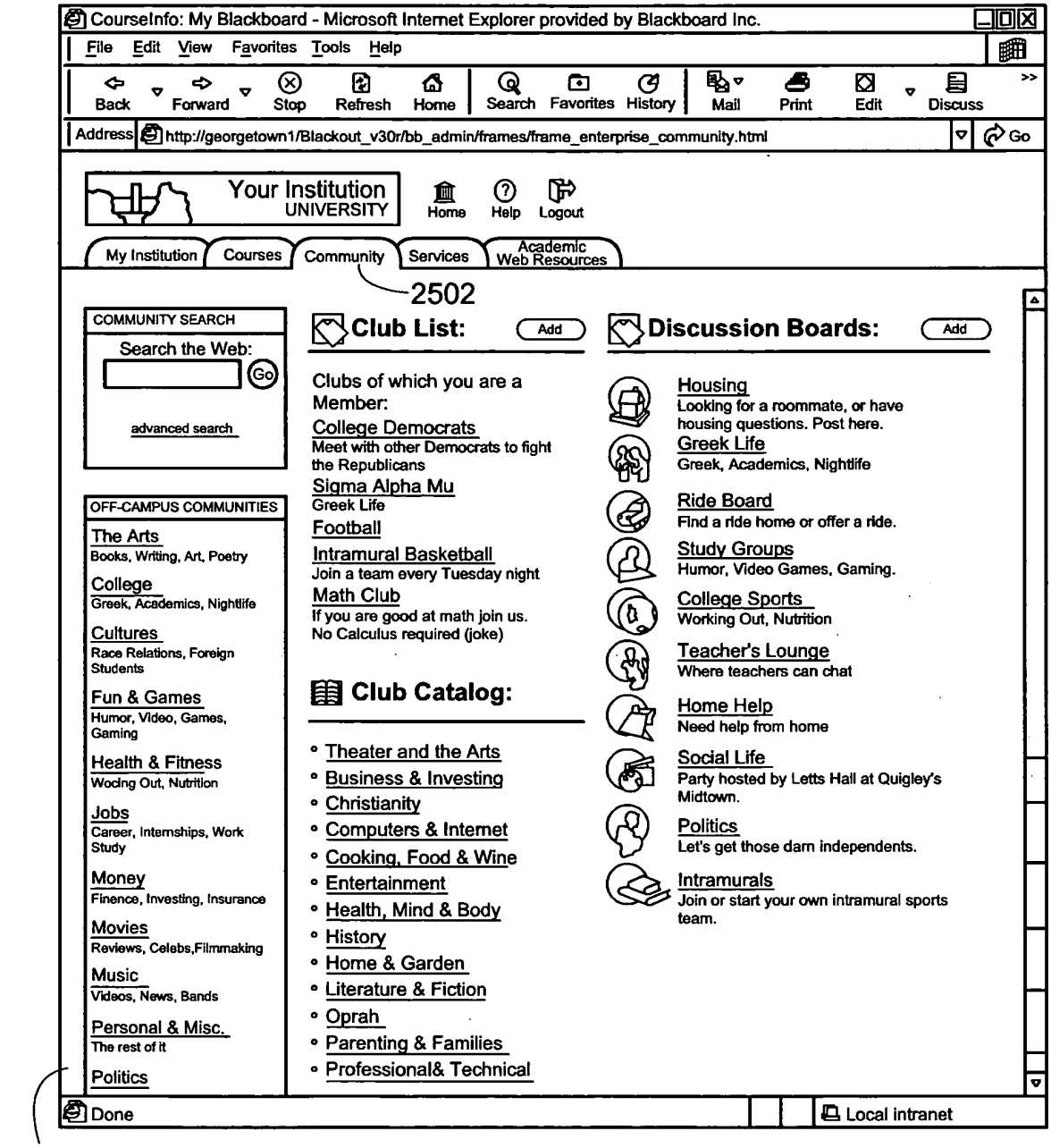

Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://localhost/webapps/portal/frameset.jsp?tab_id=_7_1
Go Links Blackboard ASP Web Tools Crystal Report Viewer Expense Reports
Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight
Your Institution UNIVERSITY
Home Help Logout
2490
My Institution
Courses
Commmunity
Services
System Admin
2403a
2403b
2403c
2403d
2401
Blackboard Learning System™ (Release 6)
Blackboard Internal SE Dev Edition 6.0.9 build 220
bb_bh60
administrator (System admin)
2414
2442
2402
Courses
List/Modify Courses
Create Course
Batch Create Courses
Batch Enroll Users in Course
Remove Course
Copy Course
Import Course
2436
2404
2406
2408
2410
2412
2416
Export Course
Archive Course
2418
2420
Restore Courses
Settings
2422
2424
Images and Icons
Catalog
2426
System Options
Manage System Extension
System Reporting
2446
2444
System Config Info
2448
Logs
2450
Tools
Announcements
2454
Institution Calendar
2456
Send E-mail
2458
2452
2460
2428
Organizations
List/Modify Organizations
Create Organization
Batch Create Organizations
Batch Enroll Users in Organization
Remove Organization
Copy Organization
Discussion Boards
2430
Import Organization
Export Organization
Archive Organization
Restore Organization
Settings
Images and Icons
Catalog
2462
2464
2466
2468
2470
Security and Integration
SSI Choice
Authentification Config
Manage Context Encryption Key
Integration Password
Customize Login Page
2472
Customize User Profile
User Priviledges
2474
System Settings
Gateway Options
2478
2476
Assistance
Online Admin Manual
2480
Online Support Site
2482
Designate Local Support Contact
2484
2479
2432
Users
List/Modify Users
Create User
Batch Create Users
2433
2434
Remove Users from the System
Batch Remove Users from the System
Observer Management
2437
Postal Areas
2438
Manage Tabs
2440
Manage Tool Panel
Powered by Blackboard
Trusted sites

FIG. 24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Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss
Address http://georgetown1/Blackout_v30r/bb_admin/frames/frame_enterprise_community.html
Go
Your Institution
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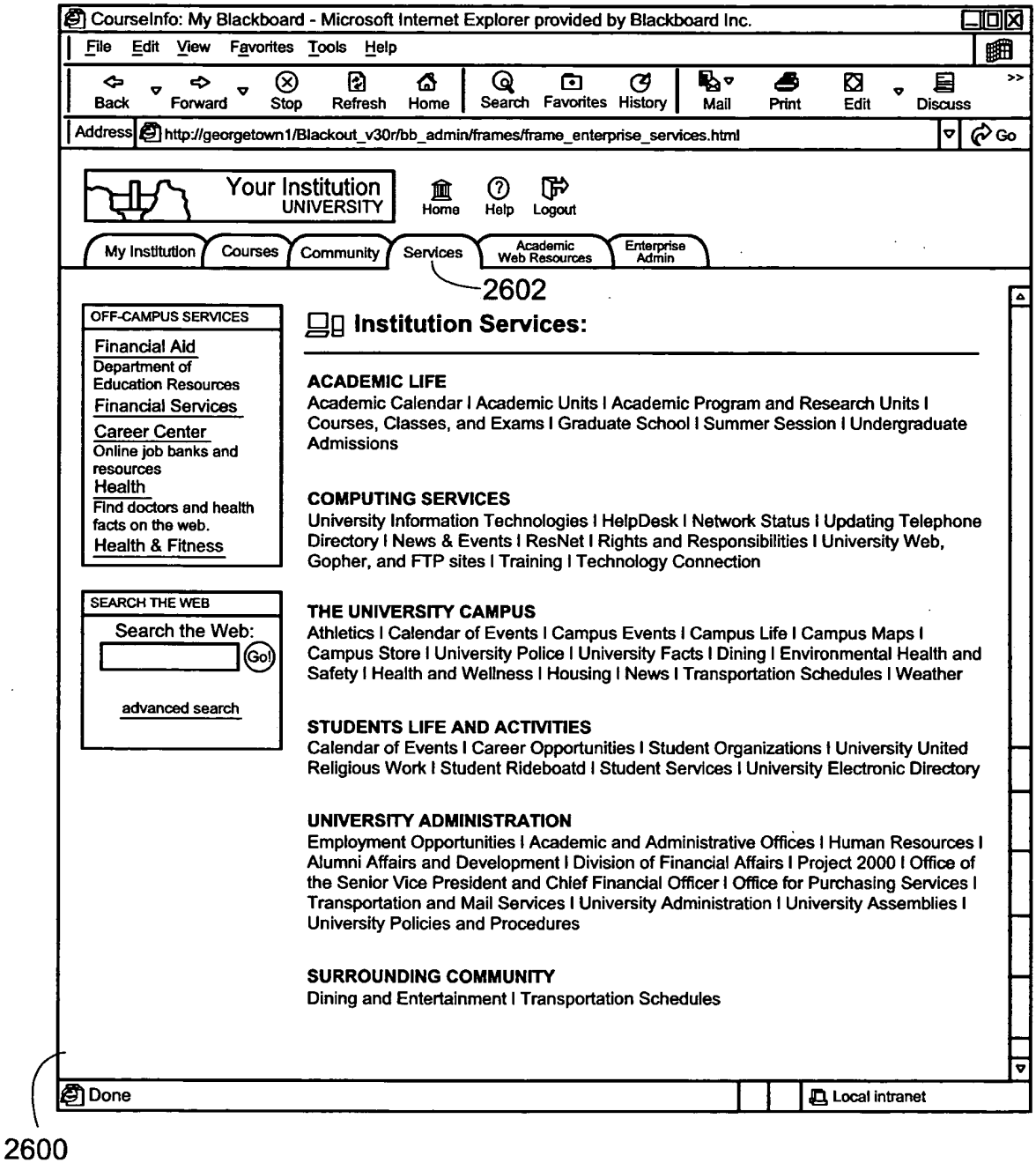
Home Help Logout
My Institution Courses Community Services Academic Web Resources
2502
COMMUNITY SEARCH
Search the Web:
Go
advanced search
OFF-CAMPUS COMMUNITIES
The Arts
Books, Writing, Art, Poetry
College
Greek, Academics, Nightlife
Cultures
Race Relations, Foreign Students
Fun & Games
Humor, Video, Games, Gaming
Health & Fitness
Wocing Out, Nutrition
Jobs
Career, Internships, Work Study
Money
Finence, Investing, Insurance
Movies
Reviews, Celebs,Filmmaking
Music
Videos, News, Bands
Personal & Misc.
The rest of it
Politics
Club List:
Add
Clubs of which you are a Member:
College Democrats
Meet with other Democrats to fight the Republicans
Sigma Alpha Mu
Greek Life
Football
Intramural Basketball
Join a team every Tuesday night
Math Club
If you are good at math join us. No Calculus required (joke)
Club Catalog:
Theater and the Arts
Business & Investing
Christianity
Computers & Internet
Cooking, Food & Wine
Entertainment
Health, Mind & Body
History
Home & Garden
Literature & Fiction
Oprah
Parenting & Families
Professional& Technical
Discussion Boards:
Add
Housing
Looking for a roommate, or have housing questions. Post here.
Greek Life
Greek, Academics, Nightlife
Ride Board
Find a ride home or offer a ride.
Study Groups
Humor, Video Games, Gaming.
College Sports
Working Out, Nutrition
Teacher's Lounge
Where teachers can chat
Home Help
Need help from home
Social Life
Party hosted by Letts Hall at Quigley's Midtown.
Politics
Let's get those darn independents.
Intramurals
Join or start your own intramural sports team.
Done
Local intranet
2500

FIG. 25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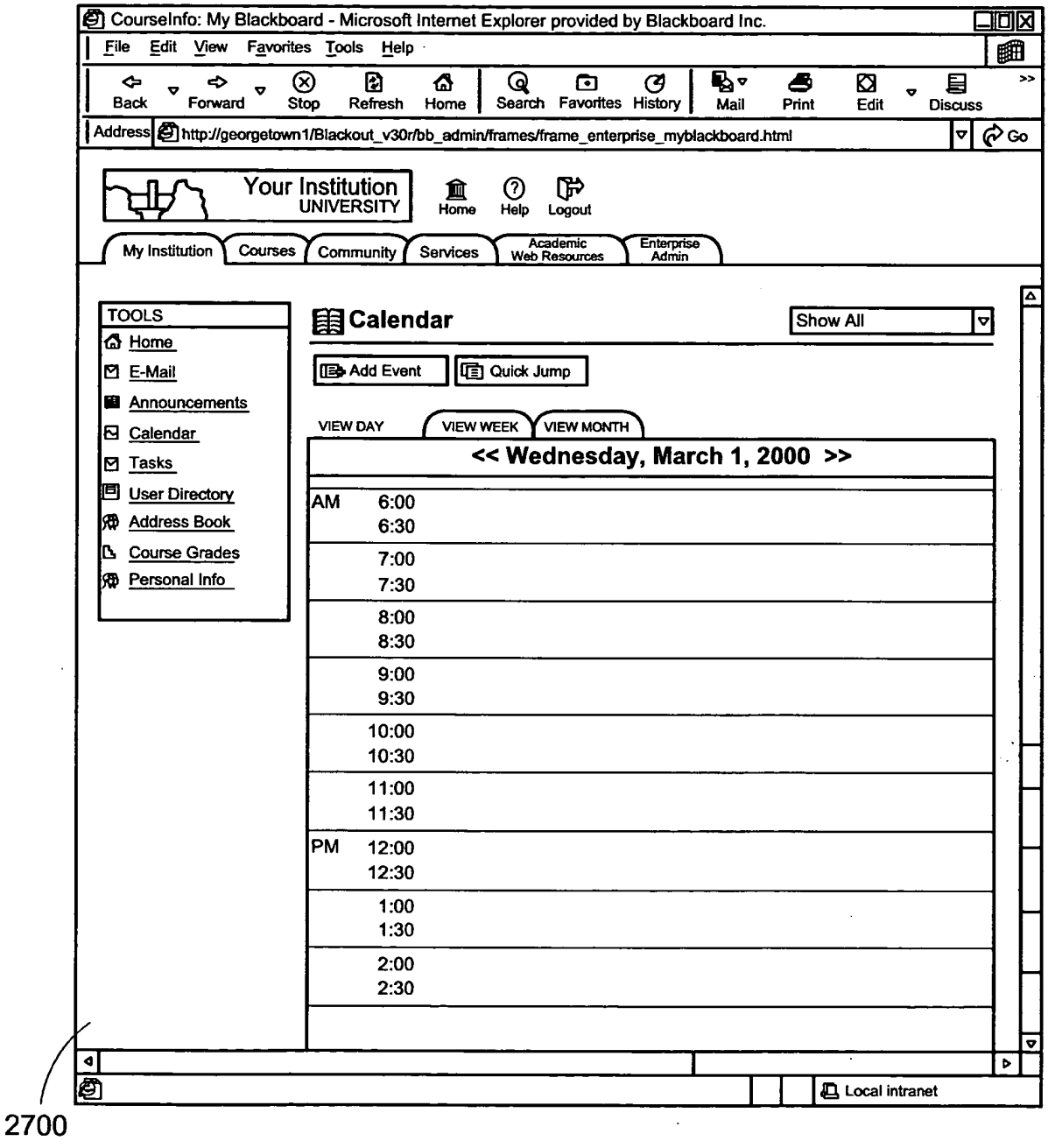
Go
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
2602
OFF-CAMPUS SERVICES
Financial Aid
Department of Education Resources
Financial Services
Career Center
Online job banks and resources
Health
Find doctors and health facts on the web.
Health & Fitness
SEARCH THE WEB
Search the Web:
Go!
advanced search
Institution Services:
ACADEMIC LIFE
Academic Calendar I Academic Units I Academic Program and Research Units I Courses, Classes, and Exams I Graduate School I Summer Session I Undergraduate Admissions
COMPUTING SERVICES
University Information Technologies I HelpDesk I Network Status I Updating Telephone Directory I News & Events I ResNet I Rights and Responsibilities I University Web, Gopher, and FTP sites I Training I Technology Connection
THE UNIVERSITY CAMPUS
Athletics I Calendar of Events I Campus Events I Campus Life I Campus Maps I Campus Store I University Police I University Facts I Dining I Environmental Health and Safety I Health and Wellness I Housing I News I Transportation Schedules I Weather
STUDENTS LIFE AND ACTIVITIES
Calendar of Events I Career Opportunities I Student Organizations I University United Religious Work I Student Rideboatd I Student Services I University Electronic Directory
UNIVERSITY ADMINISTRATION
Employment Opportunities I Academic and Administrative Offices I Human Resources I Alumni Affairs and Development I Division of Financial Affairs I Project 2000 I Office of the Senior Vice President and Chief Financial Officer I Office for Purchasing Services I Transportation and Mail Services I University Administration I University Assemblies I University Policies and Procedures
SURROUNDING COMMUNITY
Dining and Entertainment I Transportation Schedules
Done
Local intranet
2600

FIG. 26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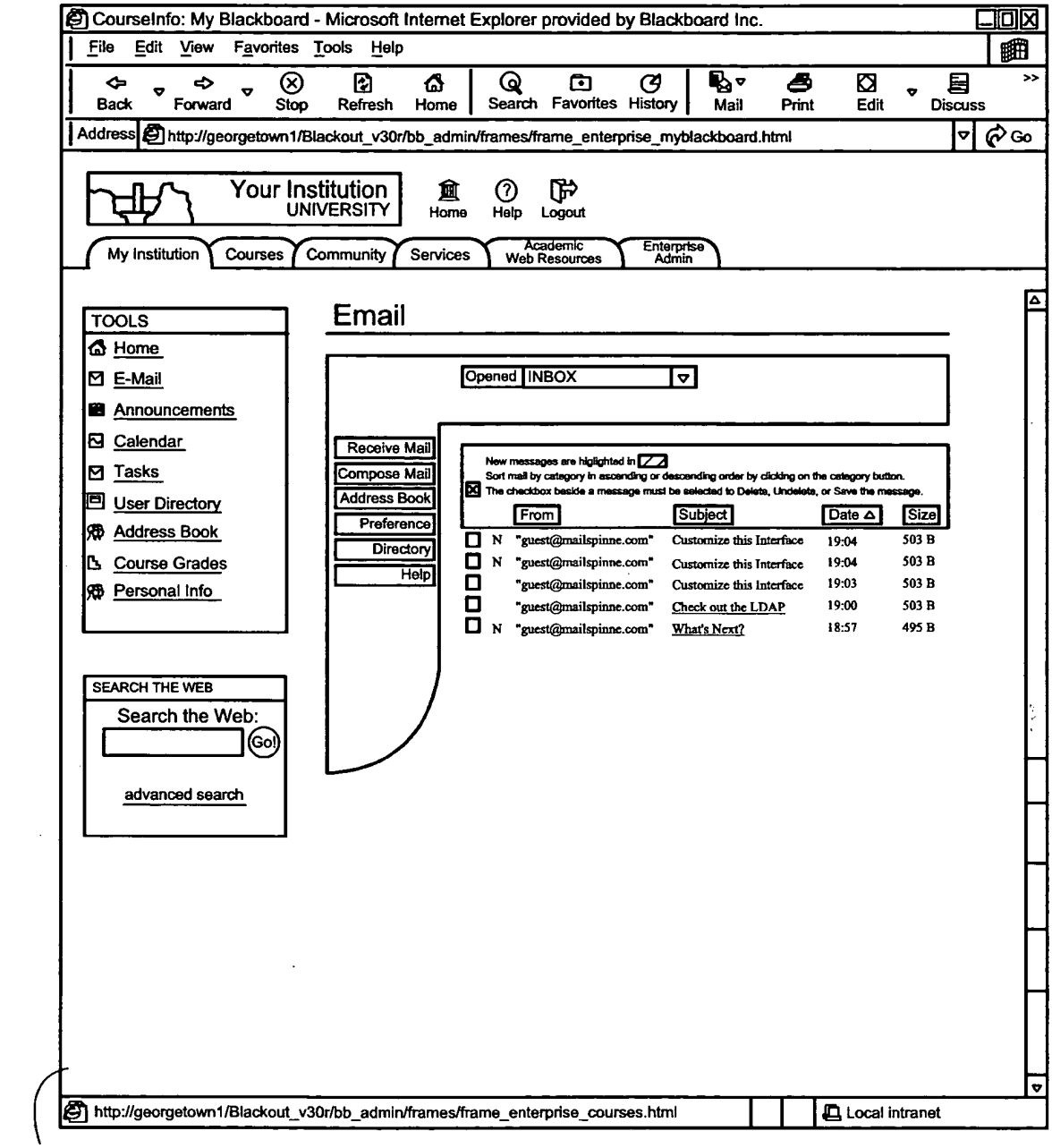
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss
Address http://georgetown1/Blackout_v30r/bb_admin/frames/frame_enterprise_myblackboard.html
Go
Your Institution
UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
TOOLS
Home
E-Mail
Announcements
Calendar
Tasks
User Directory
Address Book
Course Grades
Personal Info
Calendar
Show All
Add Event
Quick Jump
VIEW DAY VIEW WEEK VIEW MONTH
<< Wednesday, March 1, 2000 >>
AM 6:00
6:30
7:00
7:30
8:00
8:30
9:00
9:30
10:00
10:30
11:00
11:30
PM 12:00
12:30
1:00
1:30
2:00
2:30
Local intranet
2700

FIG. 27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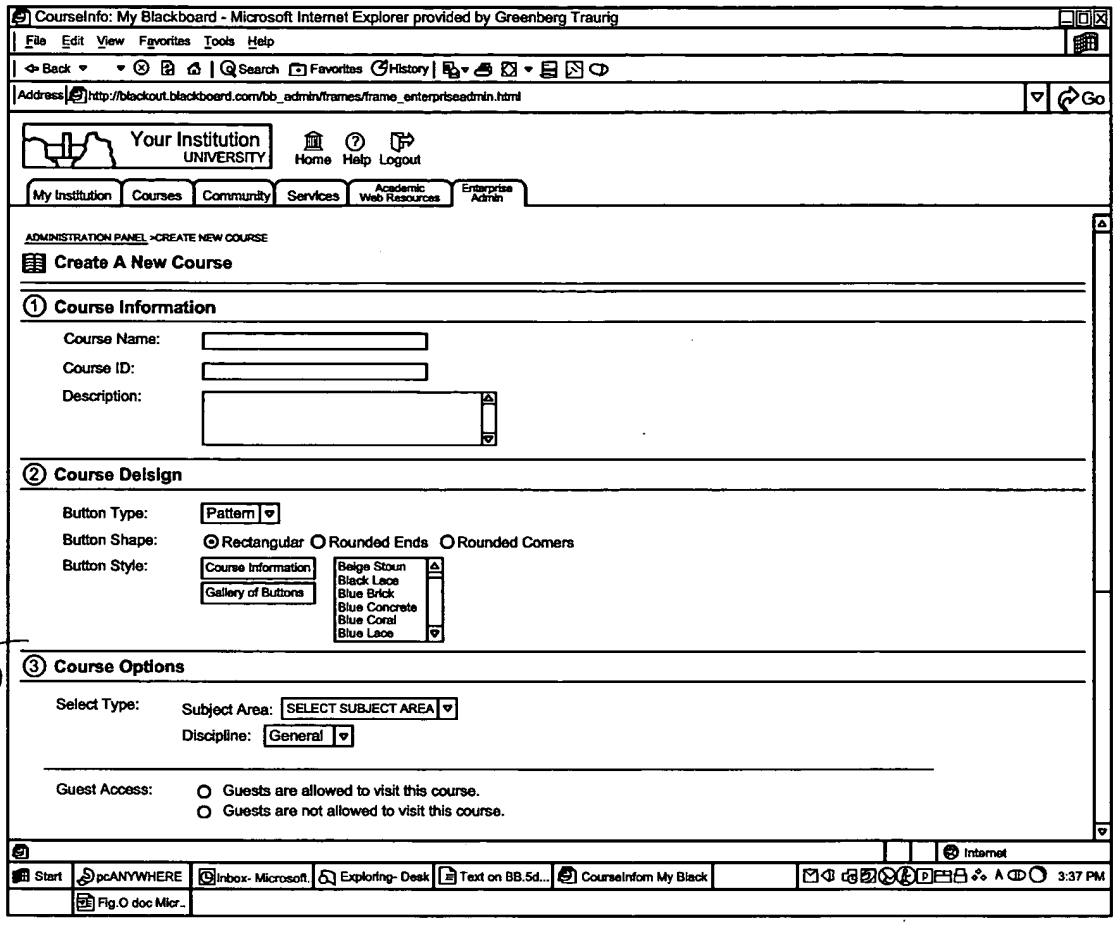
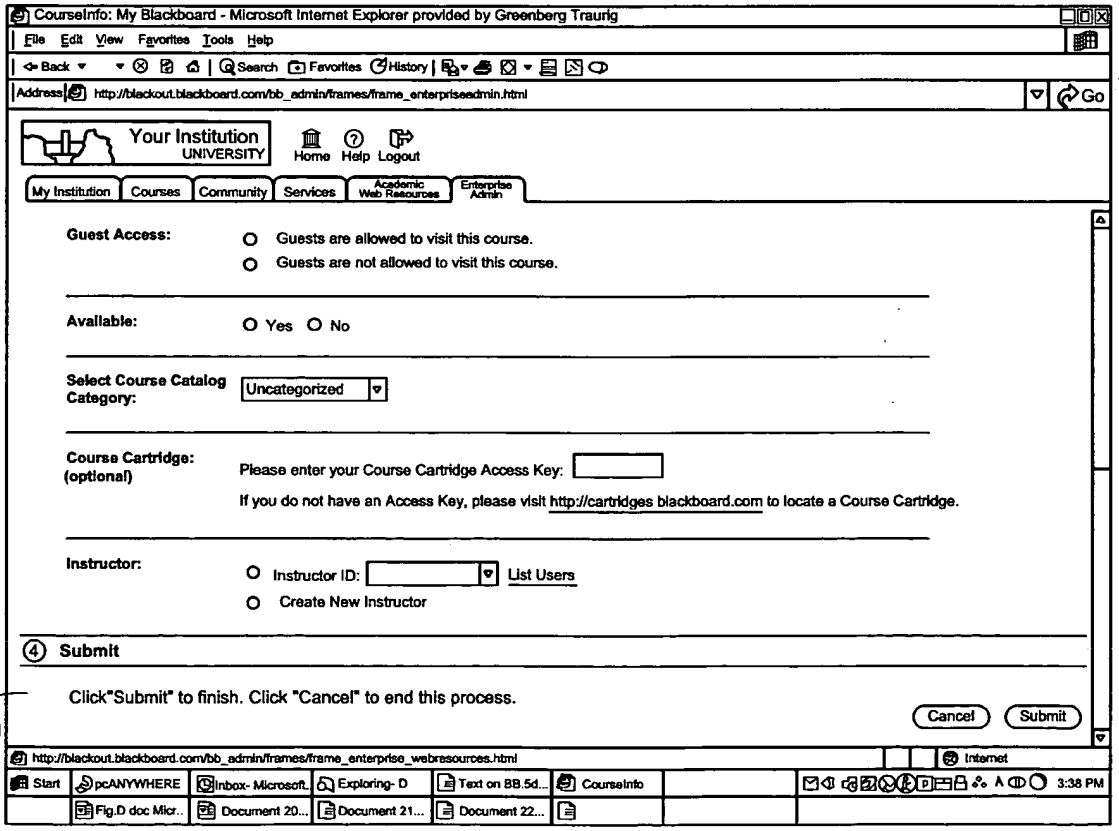
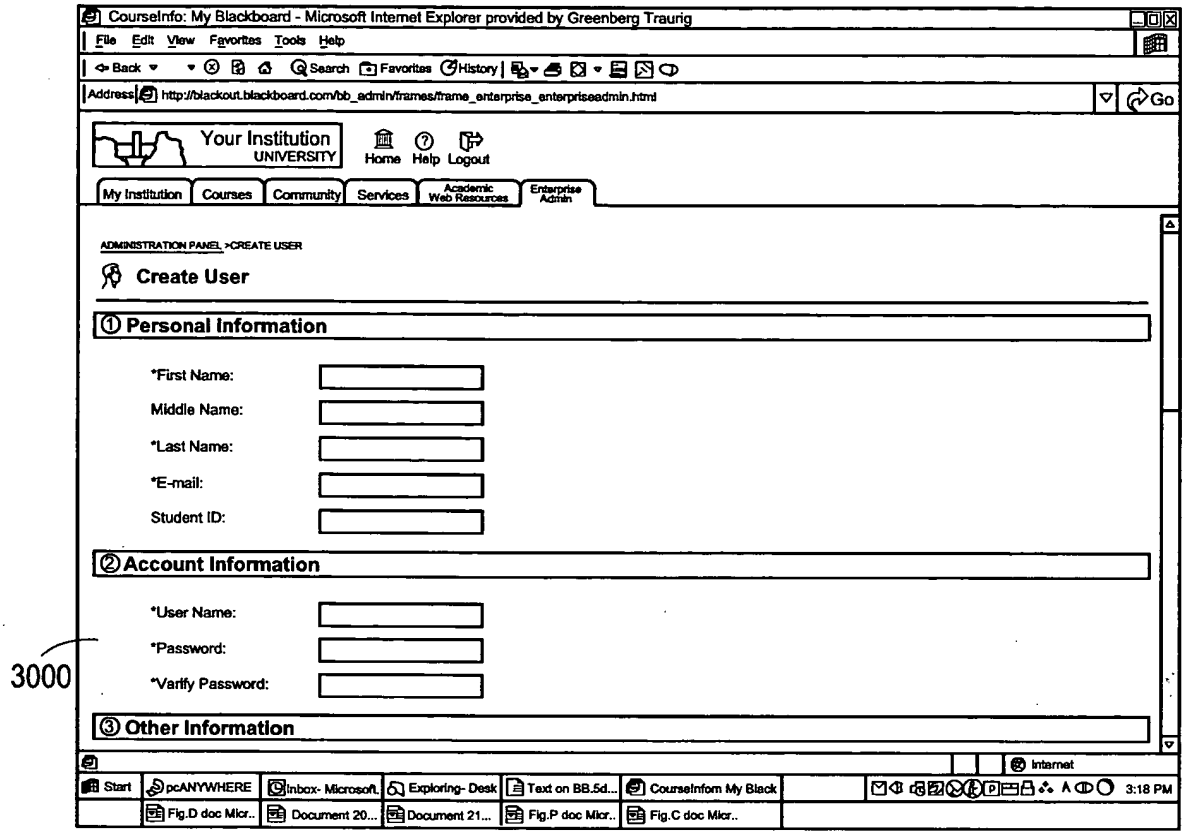
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss
Address http://georgetown1/Blackout_v30r/bb_admin/frames/frame_enterprise_myblackboard.html
Go
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
TOOLS
Home
E-Mail
Announcements
Calendar
Tasks
User Directory
Address Book
Course Grades
Personal Info
SEARCH THE WEB
Search the Web:
Go!
advanced search
Email
Opened INBOX
Receive Mail
Compose Mail
Address Book
Preference
Directory
Help
New messages are highlighted in
Sort mail by category in ascending or descending order by clicking on the category button.
The checkbox beside a message must be selected to Delete, Undelete, or Save the message.
From Subject Date Size
N "guest@mailspinne.com" Customize this Interface 19:04 503 B
N "guest@mailspinne.com" Customize this Interface 19:04 503 B
"guest@mailspinne.com" Customize this Interface 19:03 503 B
"guest@mailspinne.com" Check out the LDAP 19:00 503 B
N "guest@mailspinne.com" What's Next? 18:57 495 B
http://georgetown1/Blackout_v30r/bb_admin/frames/frame_enterprise_courses.html
Local intranet
2800

FIG. 28

FIG. 29


CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://blackout.blackboard.com/bb_admin/frames/frame_enterpriseadmin.html
Go
Your Institution
UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
ADMINISTRATION PANEL >CREATE NEW COURSE
Create A New Course
1 Course Information
Course Name:
Course ID:
Description:
2 Course Design
Button Type: Pattern
Button Shape: Rectangular Rounded Ends Rounded Corners
Button Style: Course Information
Gallery of Buttons
Beige Stoun
Black Lace
Blue Brick
Blue Concrete
Blue Coral
Blue Lace
2900
3 Course Options
Select Type:
Subject Area: SELECT SUBJECT AREA
Discipline: General
Guest Access:
Guests are allowed to visit this course.
Guests are not allowed to visit this course.
Internet
Start pcANYWHERE Inbox- Microsoft Exploring- Desk Text on BB.5d... CourseInfom My Black 3:37 PM
Fig.O doc Micr..


CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://blackout.blackboard.com/bb_admin/frames/frame_enterpriseadmin.html
Go
Your Institution
UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
Guest Access:
Guests are allowed to visit this course.
Guests are not allowed to visit this course.
Available: Yes No
Select Course Catalog Category: Uncategorized
Course Cartridge: (optional)
Please enter your Course Cartridge Access Key:
If you do not have an Access Key, please visit http://cartridges.blackboard.com to locate a Course Cartridge.
Instructor:
Instructor ID: List Users
Create New Instructor
4 Submit
Click"Submit" to finish. Click "Cancel" to end this process.
Cancel Submit
2900
http://blackout.blackboard.com/bb_admin/frames/frame_enterprise_webresources.html
Internet
Start pcANYWHERE Inbox- Microsoft Exploring- D Text on BB.5d... CourseInfo 3:38 PM
Fig.D doc Micr.. Document 20... Document 21... Document 22...


CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://blackout.blackboard.com/bb_admin/frames/frame_enterprise_enterpriseadmin.html
Go
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
ADMINISTRATION PANEL >CREATE USER
Create User
① Personal Information
*First Name:
Middle Name:
*Last Name:
*E-mail:
Student ID:
② Account Information
*User Name:
*Password:
*Varify Password:
③ Other Information
3000
Internet
Start
pcANYWHERE
Inbox- Microsoft..
Exploring- Desk
Text on BB.5d...
CourseInfom My Black
3:18 PM
Fig.D doc Micr..
Document 20...
Document 21...
Fig.P doc Micr..
Fig.C doc Micr..

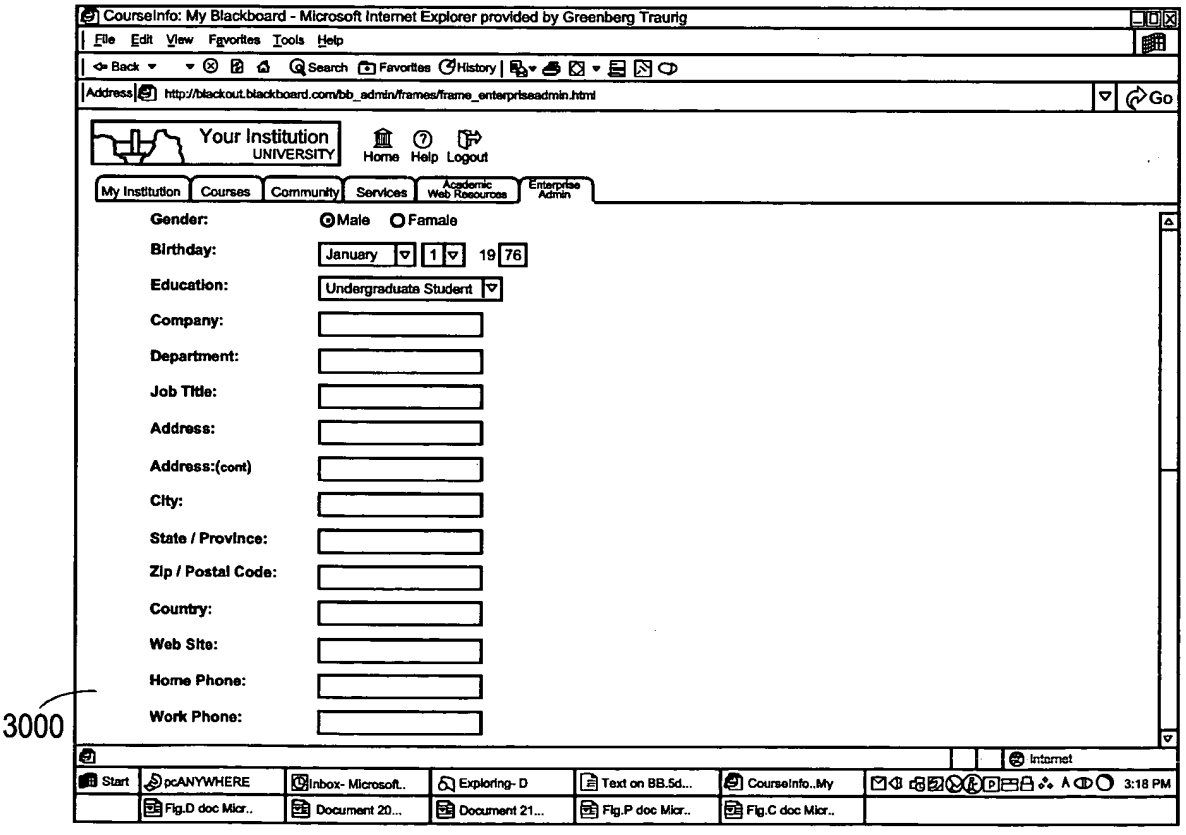

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://blackout.blackboard.com/bb_admin/frames/frame_enterpriseadmin.html
Go
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
Gender: Male Female
Birthday: January 1 19 76
Education: Undergraduate Student
Company:
Department:
Job Title:
Address:
Address:(cont)
City:
State / Province:
Zip / Postal Code:
Country:
Web Site:
Home Phone:
Work Phone:
3000
Internet
Start
pcANYWHERE
Inbox- Microsoft..
Exploring- D
Text on BB.5d...
CourseInfo..My
3:18 PM
Fig.D doc Micr..
Document 20...
Document 21...
Fig.P doc Micr..
Fig.C doc Micr..

FIG. 30A

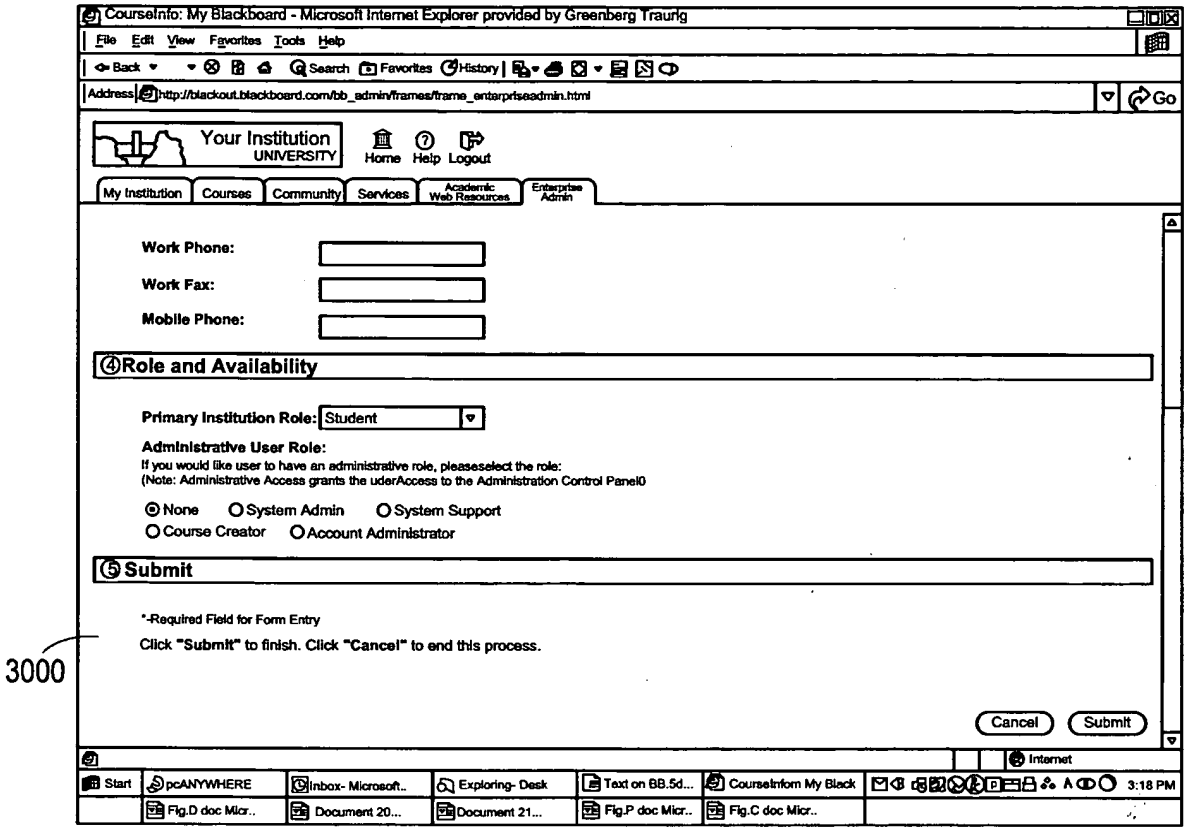

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://blackout.blackboard.com/bb_admin/frames/frame_enterprseadmin.html
Go
Your Institution
UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
Work Phone:
Work Fax:
Mobile Phone:
④Role and Availability
Primary Institution Role: Student
Administrative User Role:
If you would like user to have an administrative role, pleaseselect the role:
(Note: Administrative Access grants the uderAccess to the Administration Control Panel0
None System Admin System Support
Course Creator Account Administrator
⑤Submit
*-Required Field for Form Entry
Click "Submit" to finish. Click "Cancel" to end this process.
Cancel Submit
Internet
Start pcANYWHERE Inbox- Microsoft.. Exploring- Desk Text on BB.5d... CourseInfom My Black 3:18 PM
Fig.D doc Micr.. Document 20... Document 21... Fig.P doc Micr.. Fig.C doc Micr..
3000

FIG. 30B

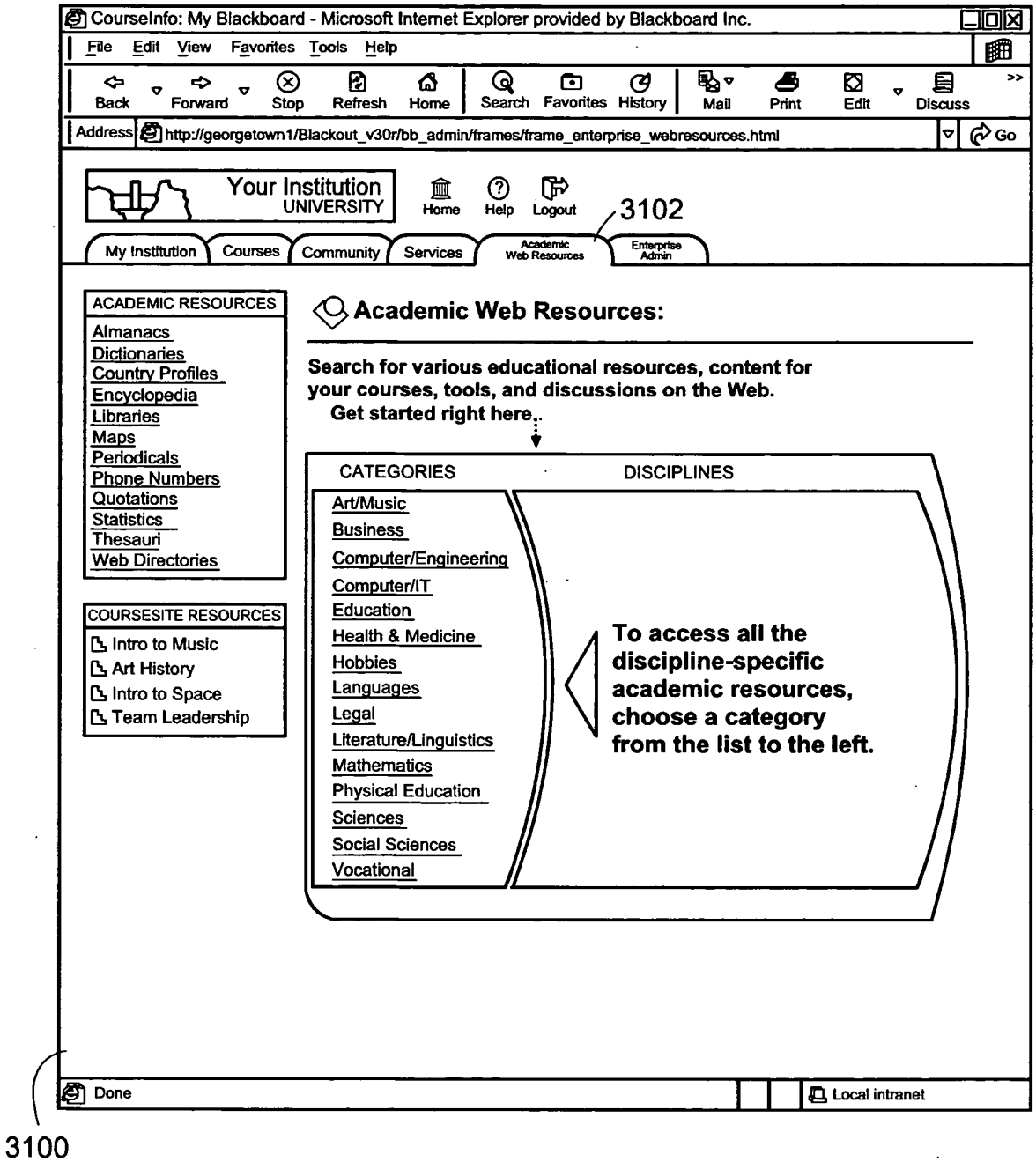

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss
Address http://georgetown1/Blackout_v30r/bb_admin/frames/frame_enterprise_webresources.html
Go
Your Institution UNIVERSITY
Home Help Logout
3102
My Institution Courses Community Services Academic Web Resources Enterprise Admin
ACADEMIC RESOURCES
Almanacs
Dictionaries
Country Profiles
Encyclopedia
Libraries
Maps
Periodicals
Phone Numbers
Quotations
Statistics
Thesauri
Web Directories
COURSESITE RESOURCES
Intro to Music
Art History
Intro to Space
Team Leadership
Academic Web Resources:
Search for various educational resources, content for your courses, tools, and discussions on the Web.
Get started right here..
CATEGORIES
DISCIPLINES
Art/Music
Business
Computer/Engineering
Computer/IT
Education
Health & Medicine
Hobbies
Languages
Legal
Literature/Linguistics
Mathematics
Physical Education
Sciences
Social Sciences
Vocational
To access all the discipline-specific academic resources, choose a category from the list to the left.
Done
Local intranet
3100

FIG. 31

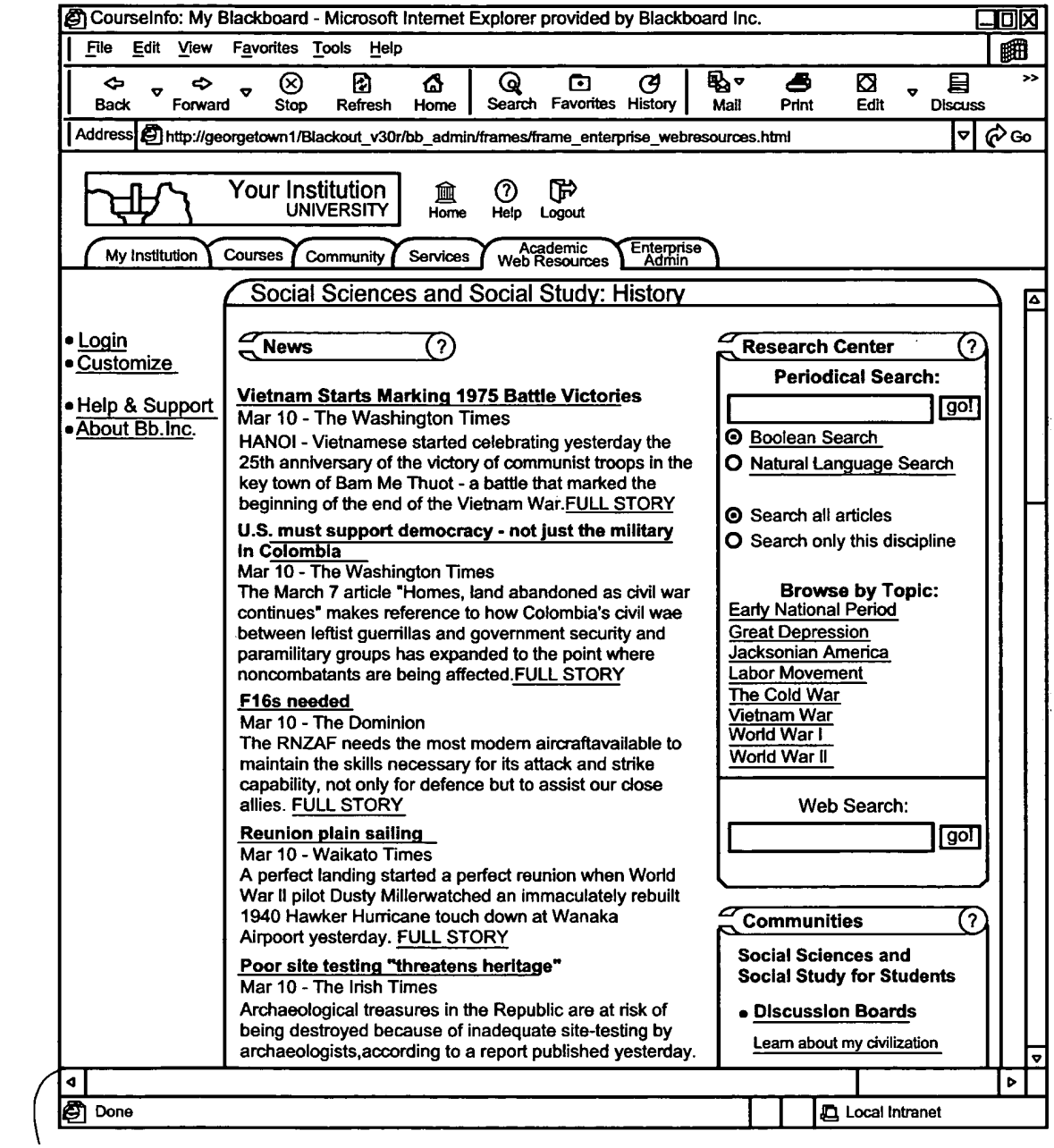

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss
Address http://georgetown1/Blackout_v30r/bb_admin/frames/frame_enterprise_webresources.html
Go
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin
Social Sciences and Social Study: History
• Login
• Customize
• Help & Support
• About Bb.Inc.
News
Vietnam Starts Marking 1975 Battle Victories
Mar 10 - The Washington Times
HANOI - Vietnamese started celebrating yesterday the 25th anniversary of the victory of communist troops in the key town of Bam Me Thuot - a battle that marked the beginning of the end of the Vietnam War.FULL STORY
U.S. must support democracy - not just the military in Colombia
Mar 10 - The Washington Times
The March 7 article "Homes, land abandoned as civil war continues" makes reference to how Colombia's civil wae between leftist guerrillas and government security and paramilitary groups has expanded to the point where noncombatants are being affected.FULL STORY
F16s needed
Mar 10 - The Dominion
The RNZAF needs the most modern aircraftavailable to maintain the skills necessary for its attack and strike capability, not only for defence but to assist our close allies. FULL STORY
Reunion plain sailing
Mar 10 - Waikato Times
A perfect landing started a perfect reunion when World War II pilot Dusty Millerwatched an immaculately rebuilt 1940 Hawker Hurricane touch down at Wanaka Airpoort yesterday. FULL STORY
Poor site testing "threatens heritage"
Mar 10 - The Irish Times
Archaeological treasures in the Republic are at risk of being destroyed because of inadequate site-testing by archaeologists,according to a report published yesterday.
Research Center
Periodical Search:
go!
Boolean Search
Natural Language Search
Search all articles
Search only this discipline
Browse by Topic:
Early National Period
Great Depression
Jacksonian America
Labor Movement
The Cold War
Vietnam War
World War I
World War II
Web Search:
go!
Communities
Social Sciences and Social Study for Students
• Discussion Boards
Learn about my civilization
Done
Local Intranet
3200

FIG. 32

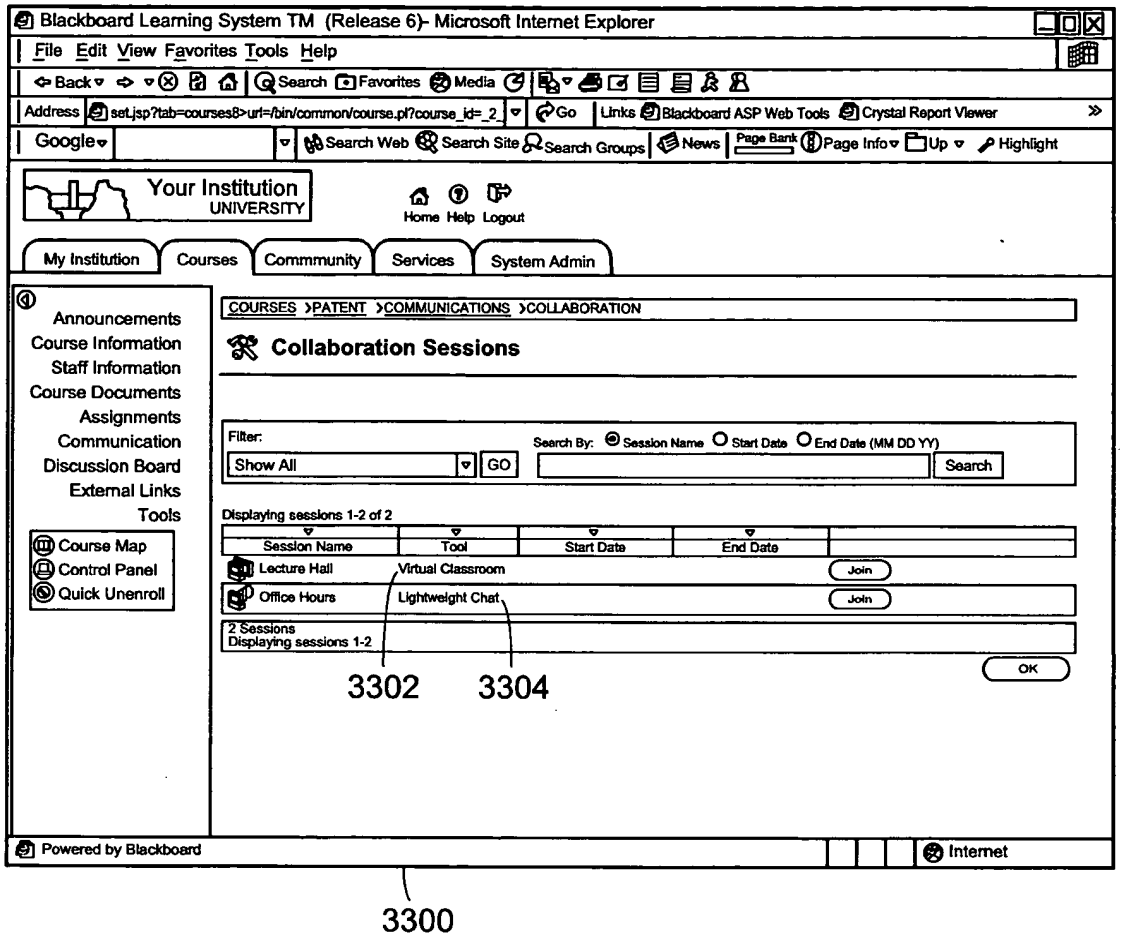

Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address set.jsp?tab=courses8>url=/bin/common/course.pl?course_id=_2_1 Go Links Blackboard ASP Web Tools Crystal Report Viewer
Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Commmunity Services System Admin
Announcements
Course Information
Staff Information
Course Documents
Assignments
Communication
Discussion Board
External Links
Tools
Course Map
Control Panel
Quick Unenroll
COURSES >PATENT >COMMUNICATIONS >COLLABORATION
Collaboration Sessions
Filter:
Show All
GO
Search By: Session Name Start Date End Date (MM DD YY)
Search
Displaying sessions 1-2 of 2
Session Name
Tool
Start Date
End Date
Lecture Hall
Virtual Classroom
Join
Office Hours
Lightweight Chat
Join
2 Sessions
Displaying sessions 1-2
OK
3302
3304
Powered by Blackboard
Internet
3300

FIG. 33A

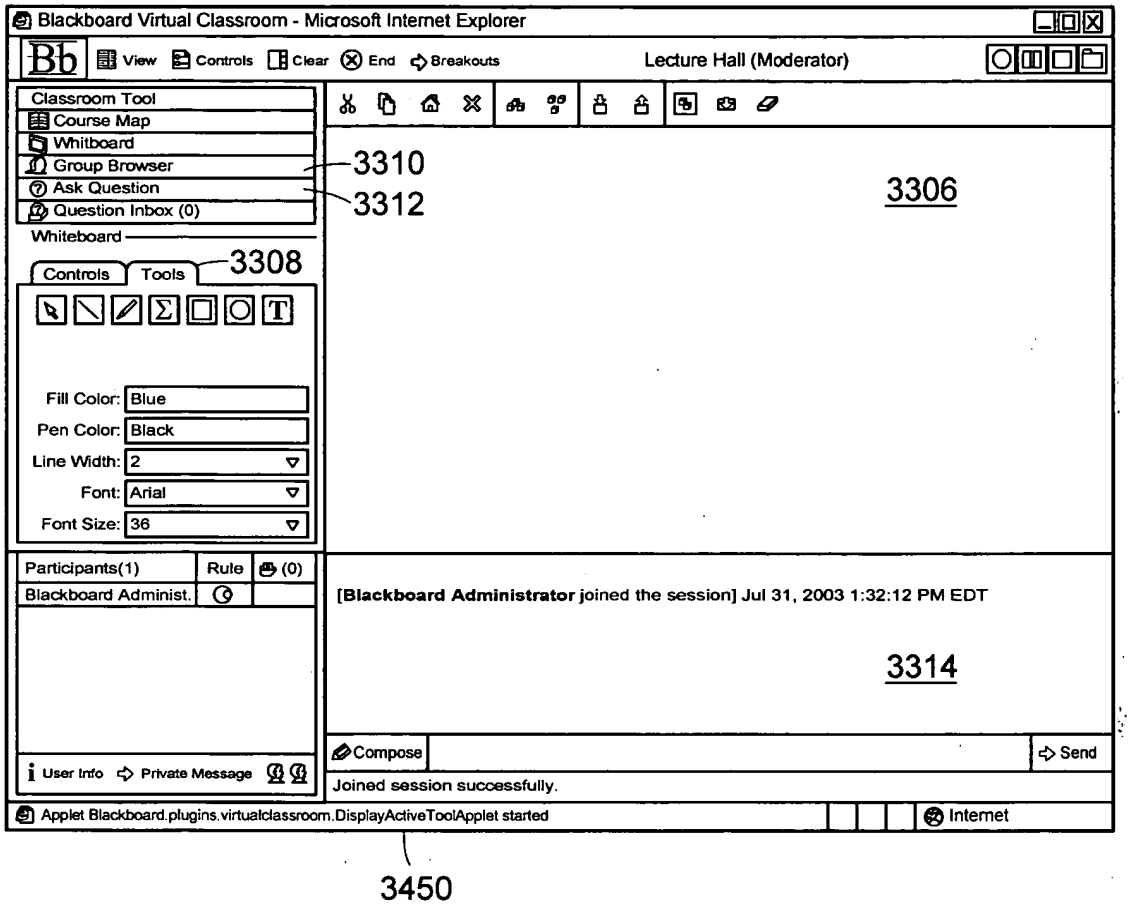

Blackboard Virtual Classroom - Microsoft Internet Explorer
Bb
View
Controls
Clear
End
Breakouts
Lecture Hall (Moderator)
Classroom Tool
Course Map
Whiteboard
Group Browser
Ask Question
Question Inbox (0)
3310
3312
3306
Whiteboard
Controls
Tools
3308
Fill Color: Blue
Pen Color: Black
Line Width: 2
Font: Arial
Font Size: 36
Participants(1)
Rule
(0)
Blackboard Administ.
[Blackboard Administrator joined the session] Jul 31, 2003 1:32:12 PM EDT
3314
User Info
Private Message
Compose
Send
Joined session successfully.
Applet Blackboard.plugins.virtualclassroom.DisplayActiveToolApplet started
Internet
3450

FIG. 33B

Linking to the E-Commerce Server

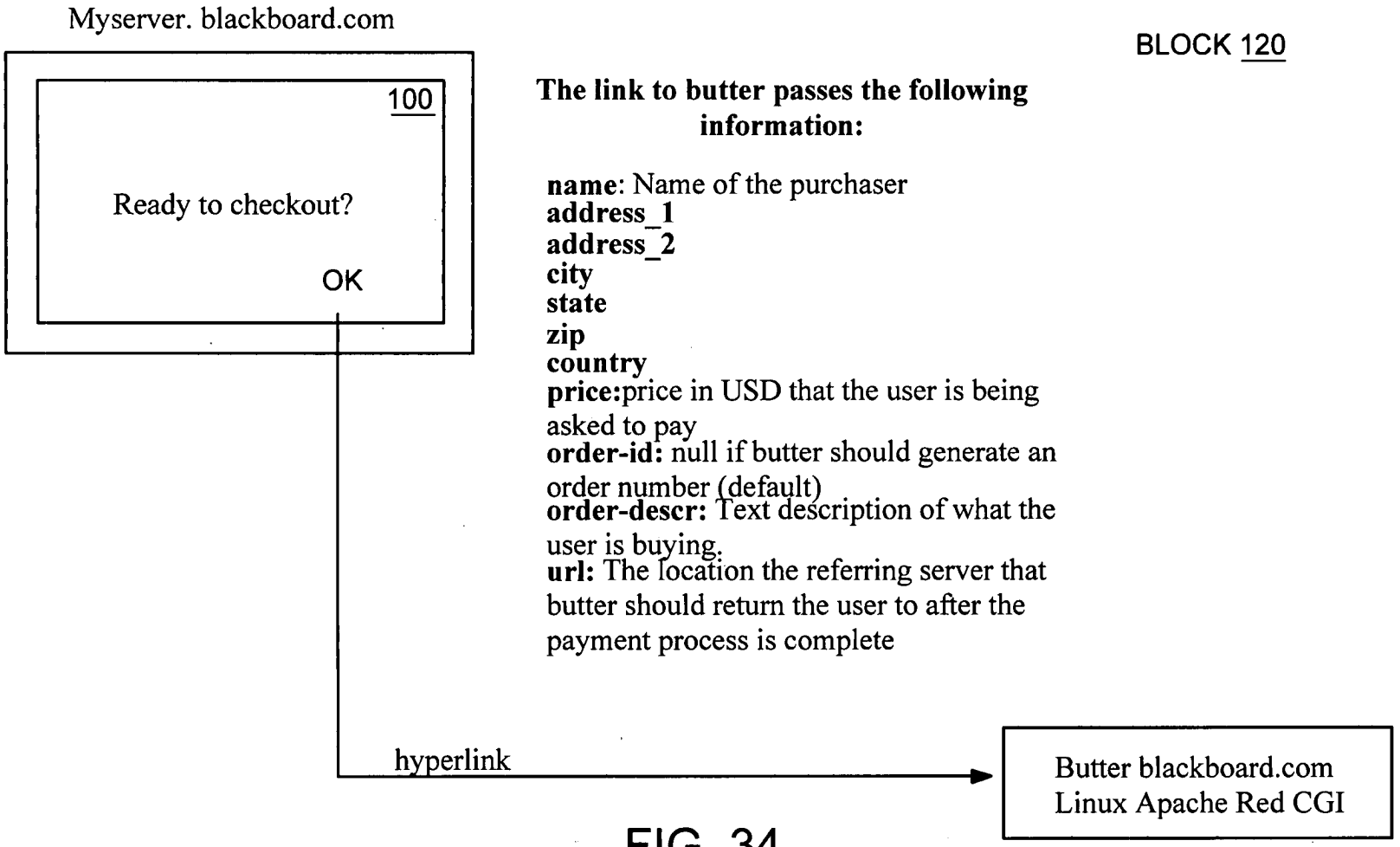
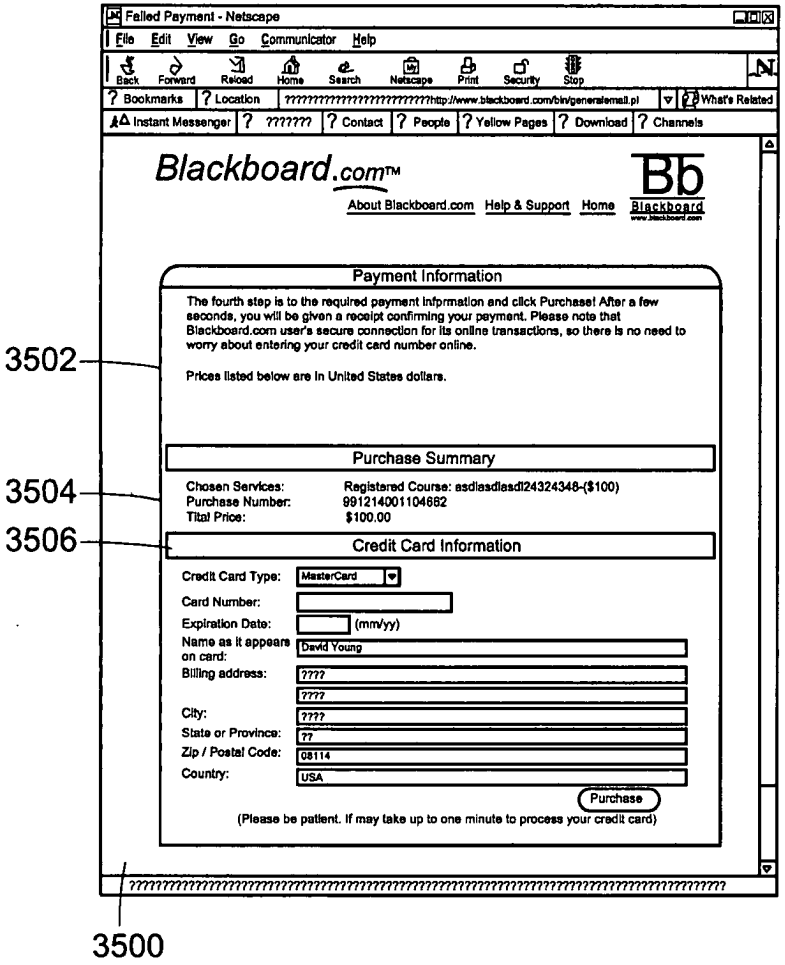


FIG. 34

First E-Commerce Screen Display

Butter.blackboard.com



Accepts VISA, MC, Diner's Club, JCB and Carte Blanche (but not Amex)

Whatever user info is available is populated from the data passed from the previous page.

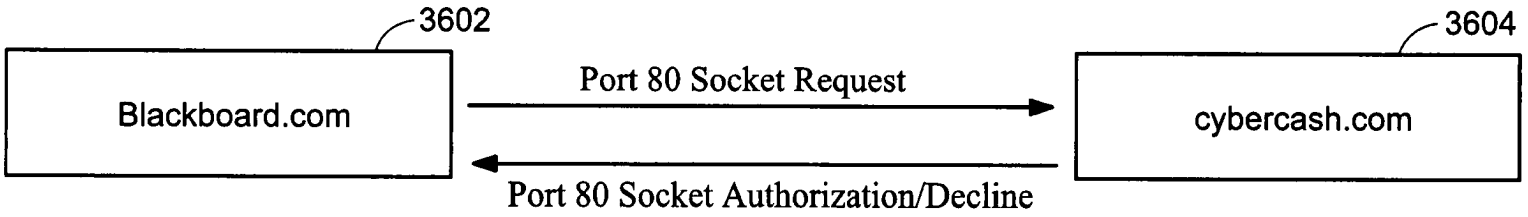
The unique order number displayed is dynamically generated by the server.

The Chosen services and price displayed are passed in from the previous screen.

The look and feel of this plate (and all butter e-commerce pages) can be modified by an HTML template. This template is selected as one of the script parameters.

FIG. 35

Authorization Process



- The authorization process takes a minute or so.
- If the card is rejected, a page like the one at right is displayed.
- If the card is accepted, the payment goes through, and the page on the next slide is shown.

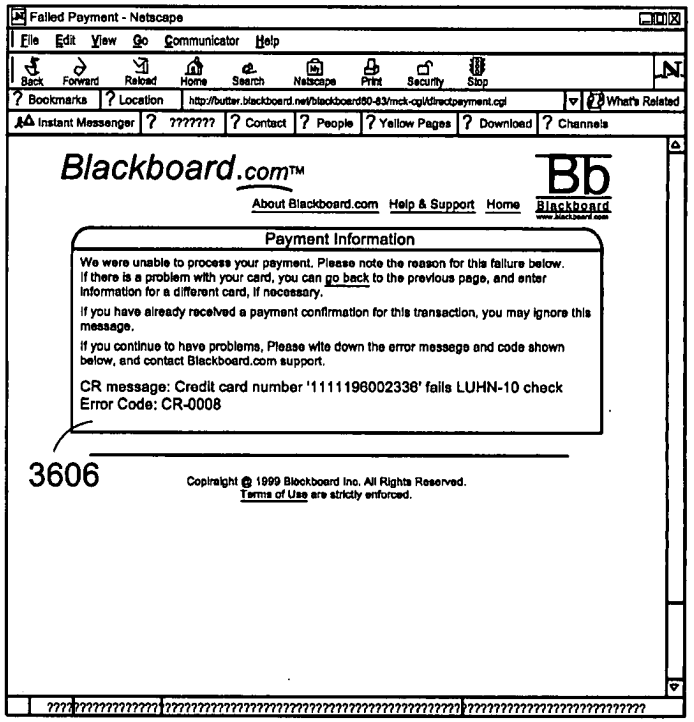
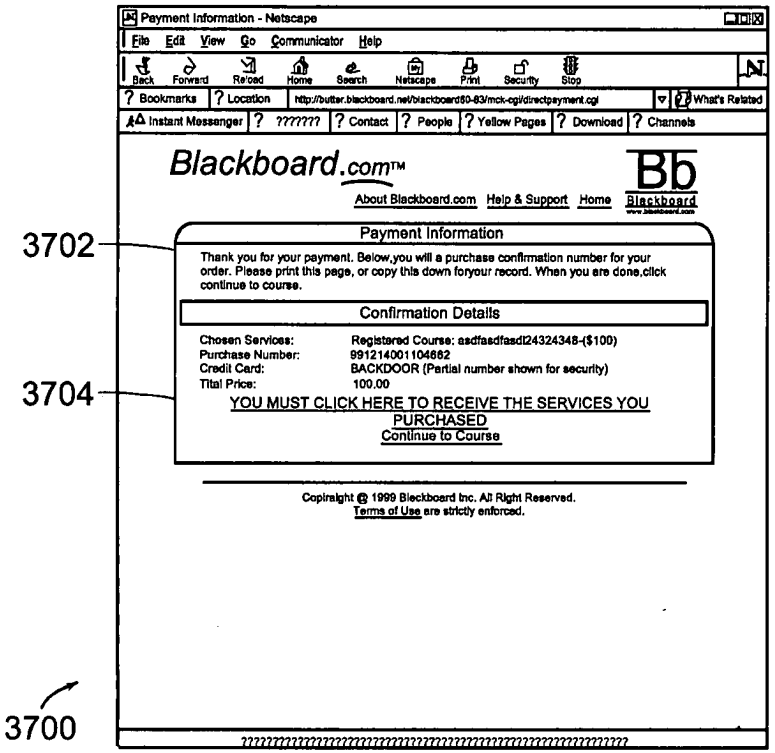


FIG. 36

Second E-Commerce Screen Display

Butter.blackboard.com



Payment is authorized and queued at Cybercash, Inc for processing.

The payment will go through and appear in Blackboard's Cybercash account within 12 hours.

There is no way that the user can back out at this point without Blackboard issuing a manual refund.

No services are provided yet. The user must follow the link at the bottom of the page, or he will receive nothing for his money.

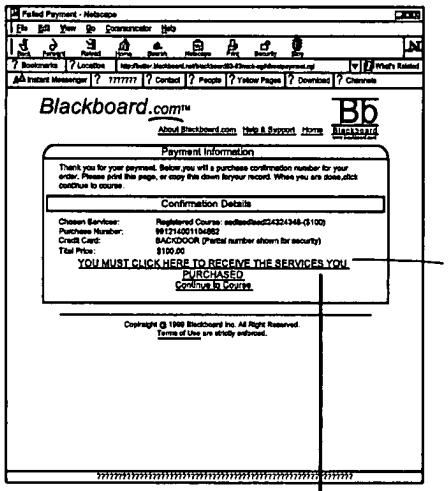
All links on this page are disabled except the one that says :YOU MUST CLICK HERE". This prevents users from failing to get their orders filled.

A authorization code is calculated by the script as a secure hash of the purchase price, the order id, and a secret number.

FIG. 37

Returning to the Originating Server

Butter.blackboard.com



3802

3800

- The link at the bottom of the page points back to the referring server using the location passed in the URL parameter to the first butter script.
- The authorization code, the order_id and a subset of the credit card digits (show_card) are passed back as parameters.
- The authorization code should be checked upon return by making an identical hash calculation. If the two hash values match, the order should be fulfilled, otherwise, and error should be shown.

myserver.blackboard.com

FIG. 38

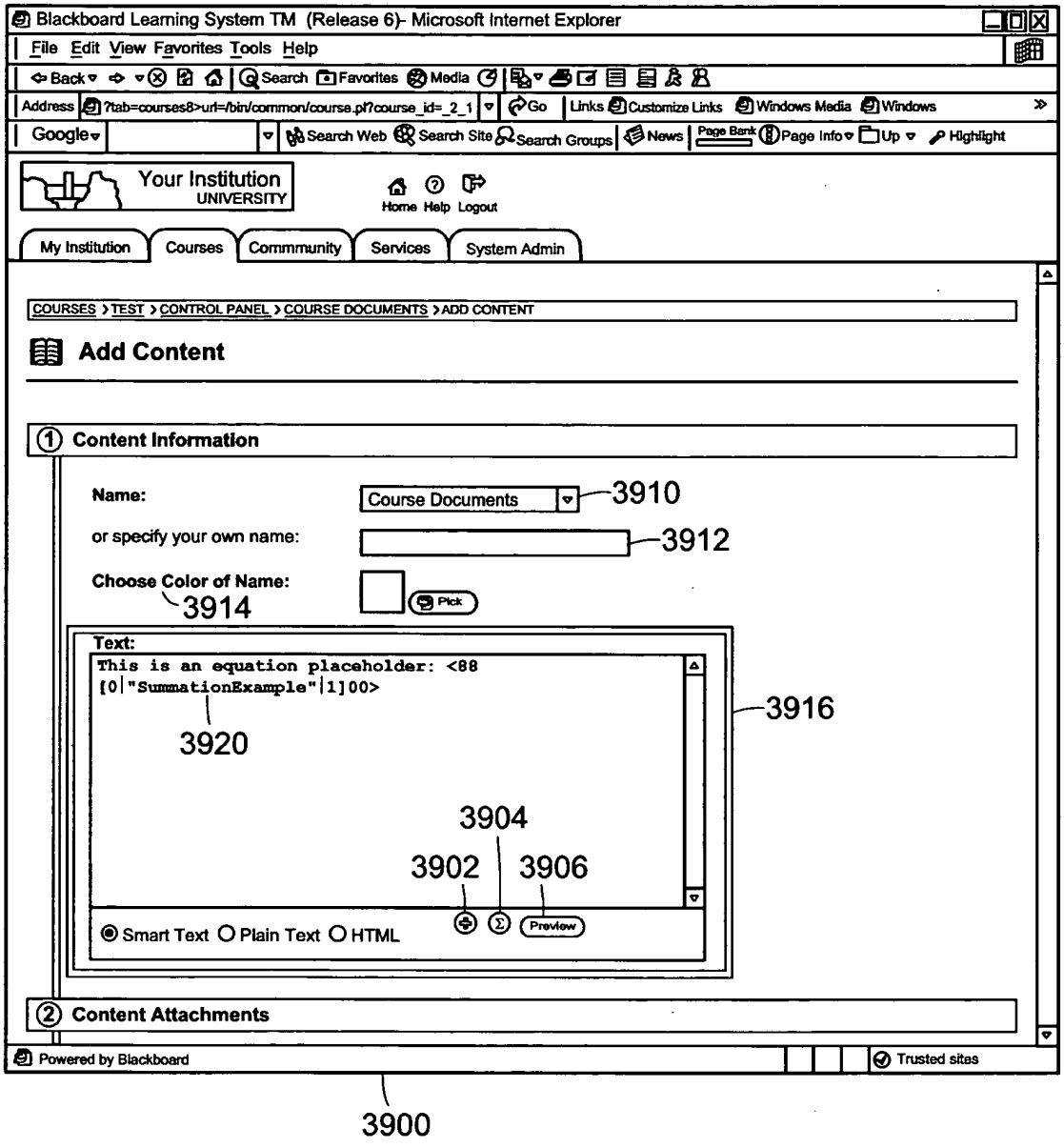

Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address ?tab=courses8>url=/bin/common/course.pl?course_id=_2_1
Go Links Customize Links Windows Media Windows
Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Commmunity Services System Admin
COURSES > TEST > CONTROL PANEL > COURSE DOCUMENTS > ADD CONTENT
Add Content
1 Content Information
Name:
Course Documents
3910
or specify your own name:
3912
Choose Color of Name:
3914
Pick
Text:
This is an equation placeholder: <88
{0|"SummationExample"|1]00>
3920
3916
3904
3902
3906
Smart Text Plain Text HTML
Preview
2 Content Attachments
Powered by Blackboard
Trusted sites
3900

FIG. 39

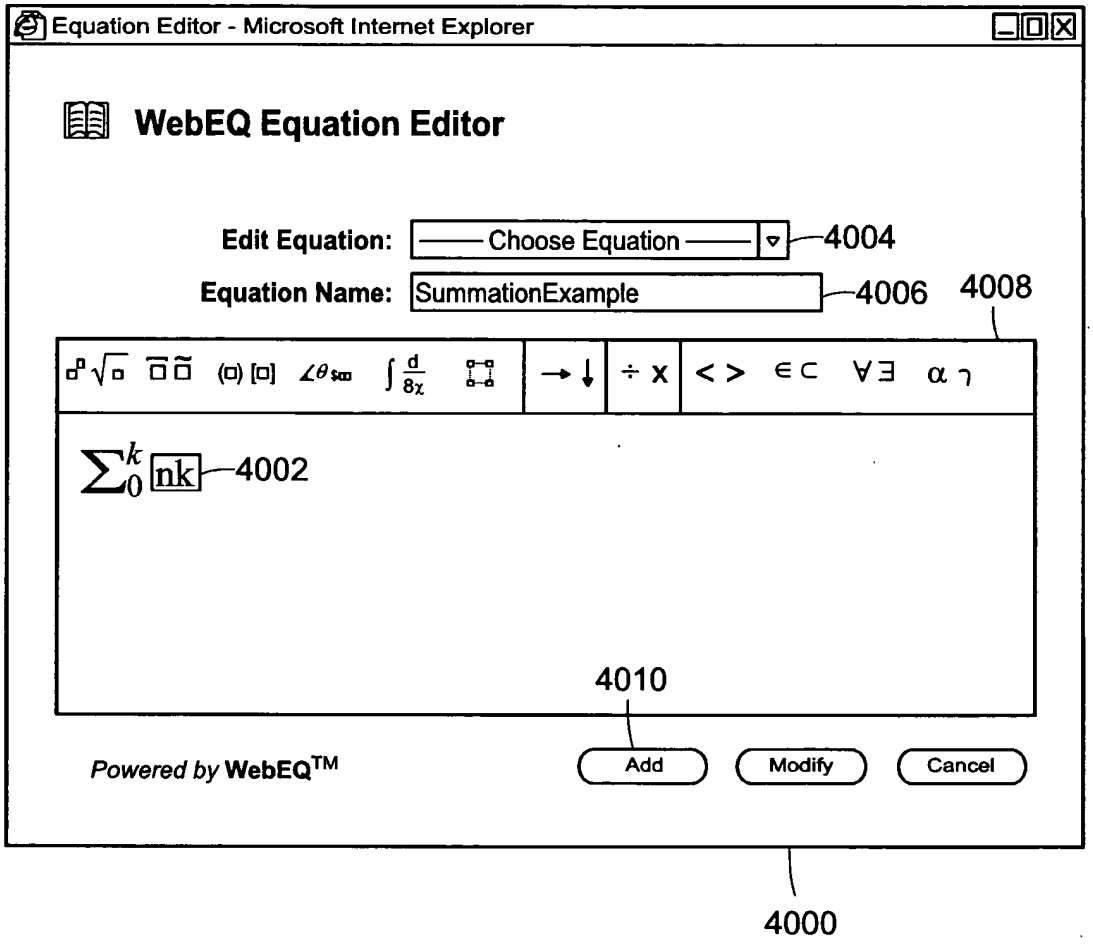
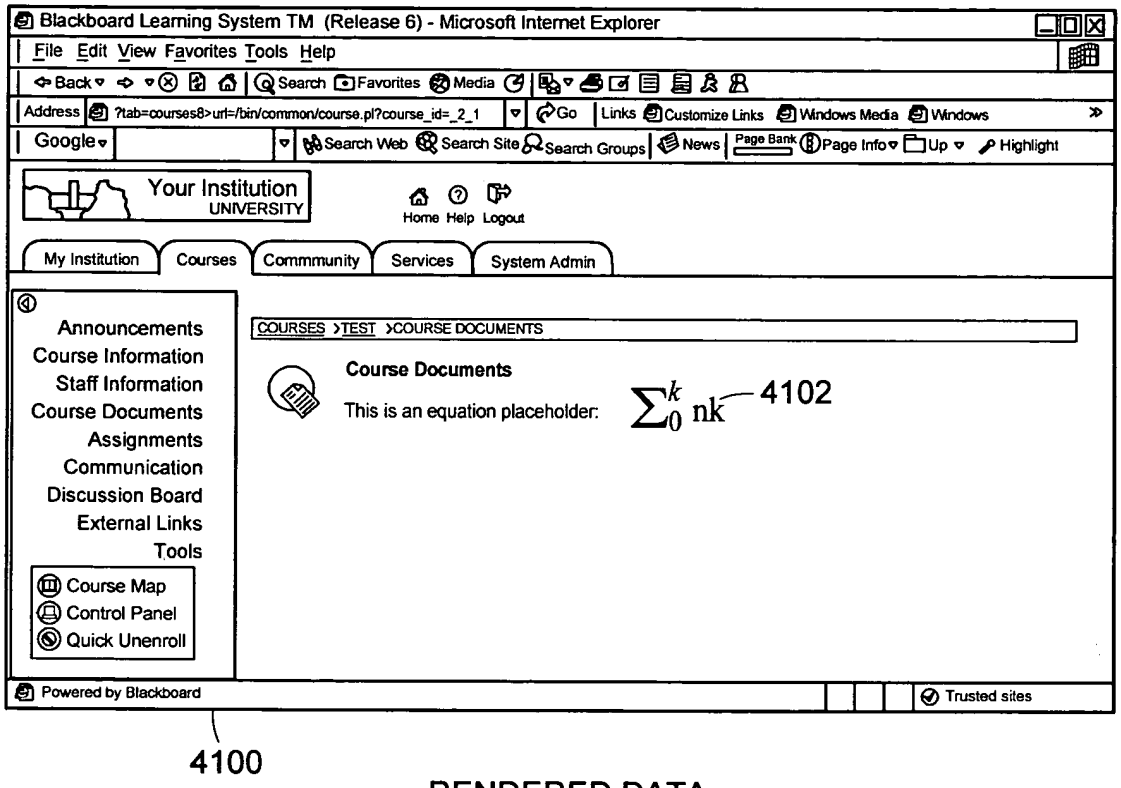

Equation Editor - Microsoft Internet Explorer
WebEQ Equation Editor
Edit Equation:
Choose Equation
4004
Equation Name:
SummationExample
4006
4008
4002
4010
Powered by WebEQ™
Add
Modify
Cancel
4000

FIG. 40



RENDERED DATA

FIG. 41

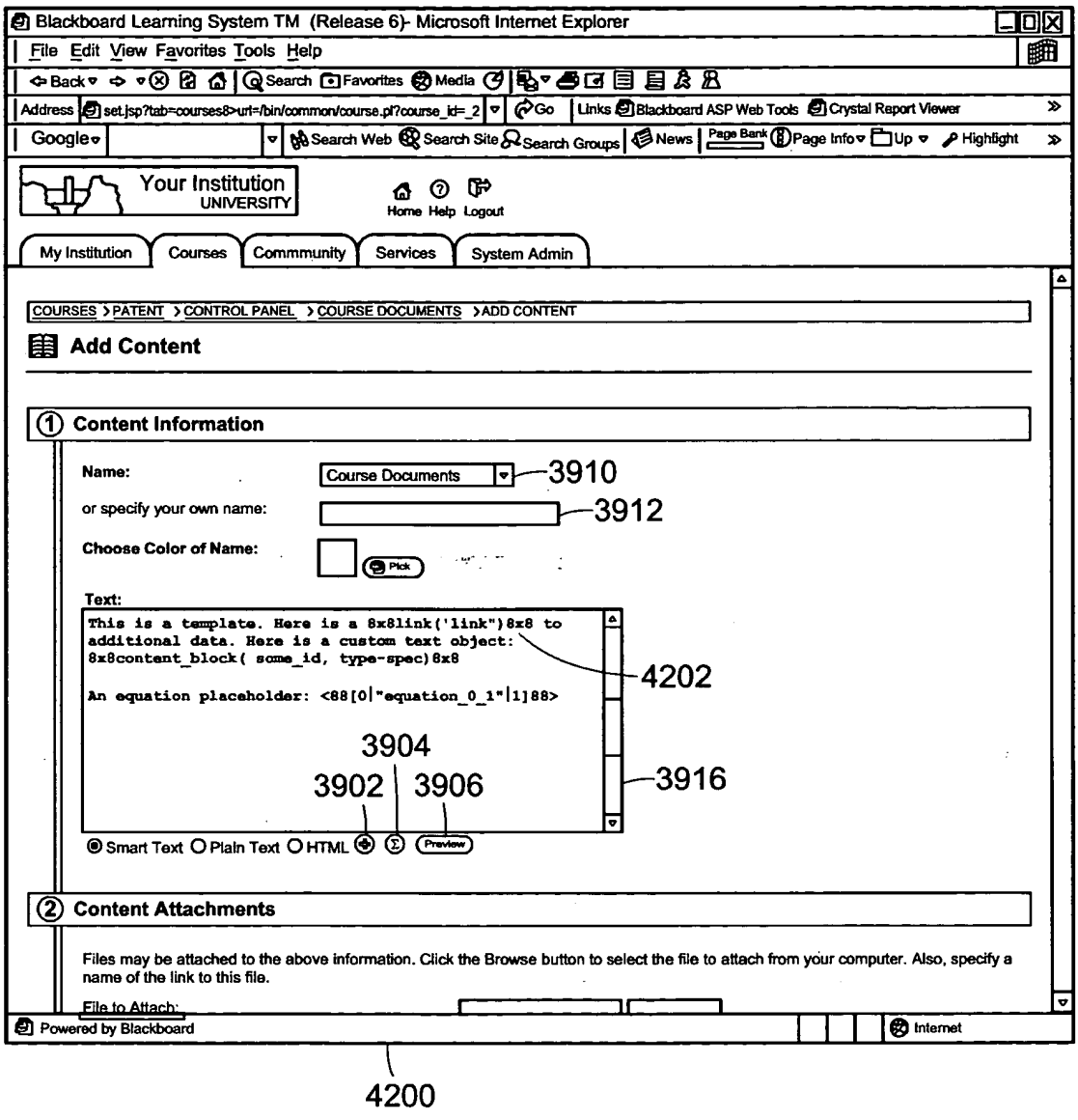

Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address set.jsp?tab=courses8>url=/bin/common/course.pl?course_id=_2
Go Links Blackboard ASP Web Tools Crystal Report Viewer
Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Commmunity Services System Admin
COURSES > PATENT > CONTROL PANEL > COURSE DOCUMENTS > ADD CONTENT
Add Content
1 Content Information
Name:
Course Documents
3910
or specify your own name:
3912
Choose Color of Name:
Pick
Text:
This is a template. Here is a 8x8link('link")8x8 to additional data. Here is a custom text object: 8x8content_block(some_id, type-spec)8x8
An equation placeholder: <88[0|"equation_0_1"|1]88>
4202
3904
3902
3906
3916
Smart Text Plain Text HTML
Preview
2 Content Attachments
Files may be attached to the above information. Click the Browse button to select the file to attach from your computer. Also, specify a name of the link to this file.
File to Attach:
Powered by Blackboard
Internet
4200

FIG. 42

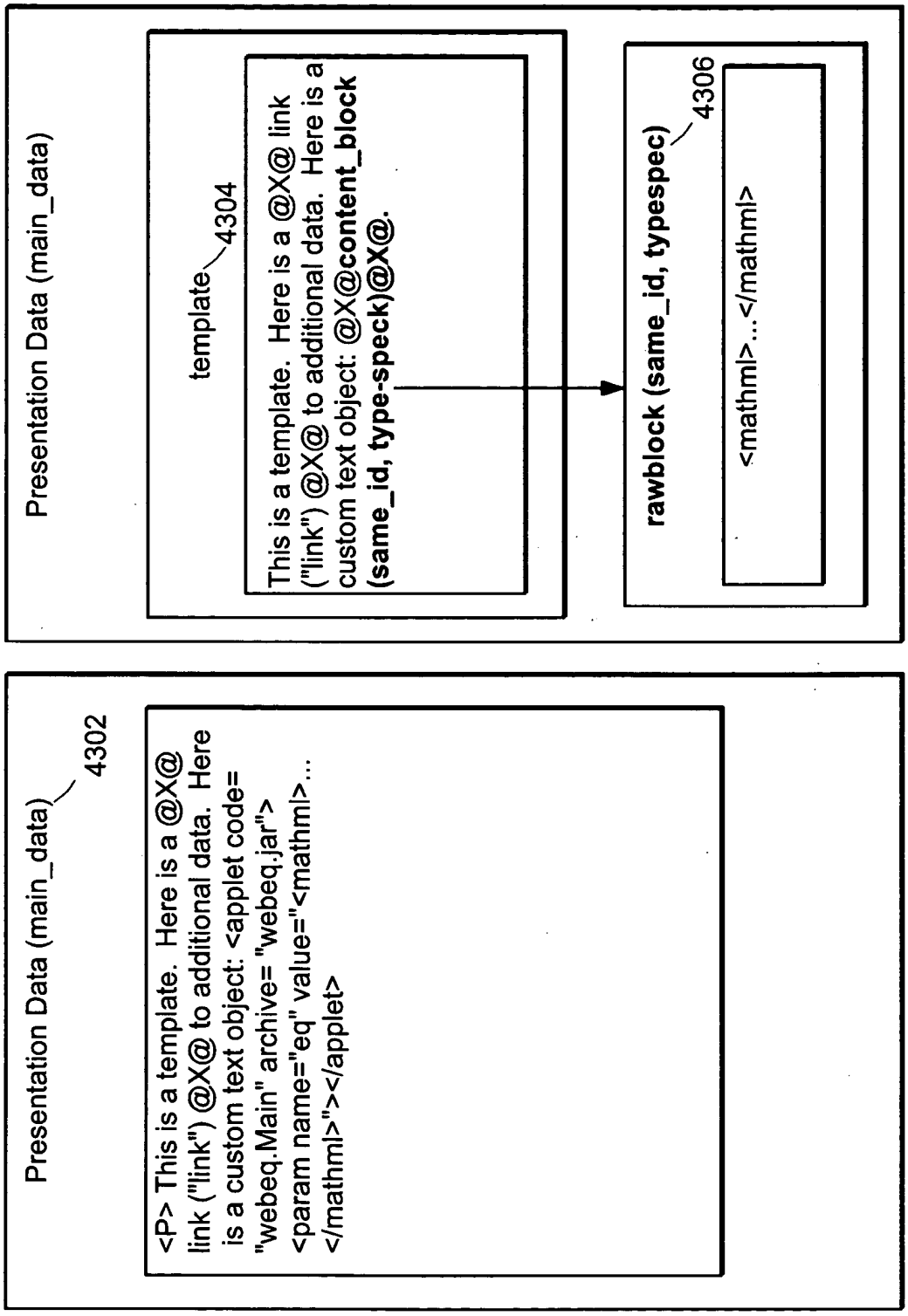

Presentation Data (main_data)
4302
<P> This is a template. Here is a @X@ link ("link") @X@ to additional data. Here is a custom text object: <applet code= "webeq.Main" archive= "webeq.jar"> <param name="eq" value="<mathml>... </mathml>"></applet>
Presentation Data (main_data)
template
4304
This is a template. Here is a @X@ link ("link") @X@ to additional data. Here is a custom text object: @X@**content_block (same_id, type-speck)@X@.**
rawblock (same_id, typespec)
4306
<mathml>...</mathml>

FIG. 43

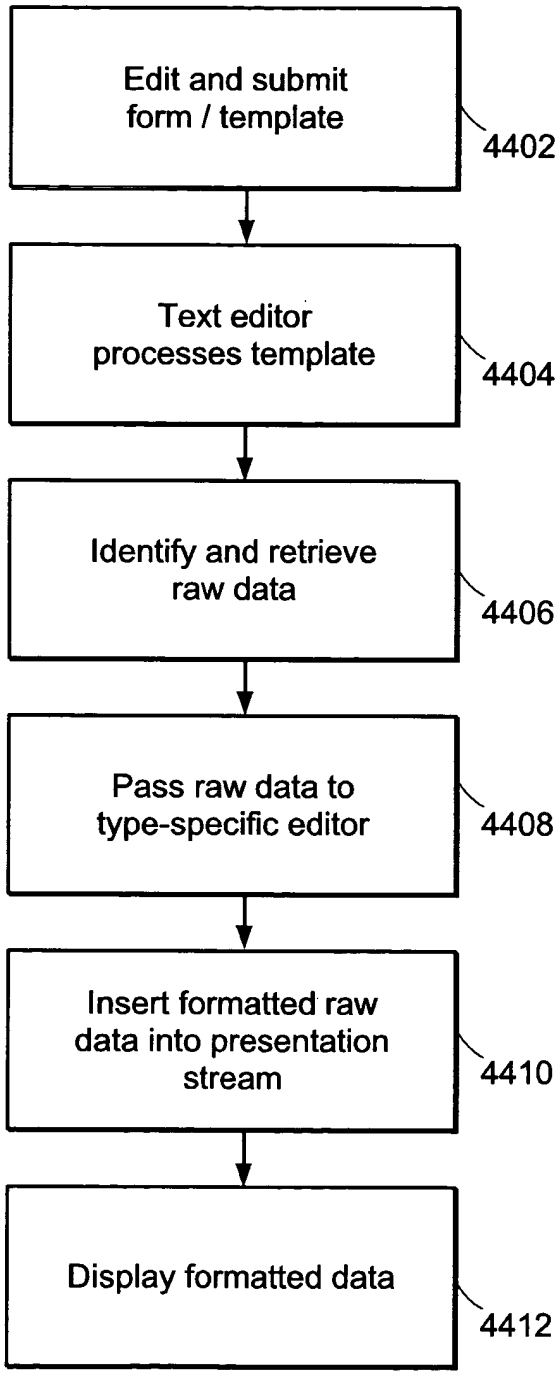

Edit and submit form / template
4402
Text editor processes template
4404
Identify and retrieve raw data
4406
Pass raw data to type-specific editor
4408
Insert formatted raw data into presentation stream
4410
Display formatted data
4412

FIG. 44

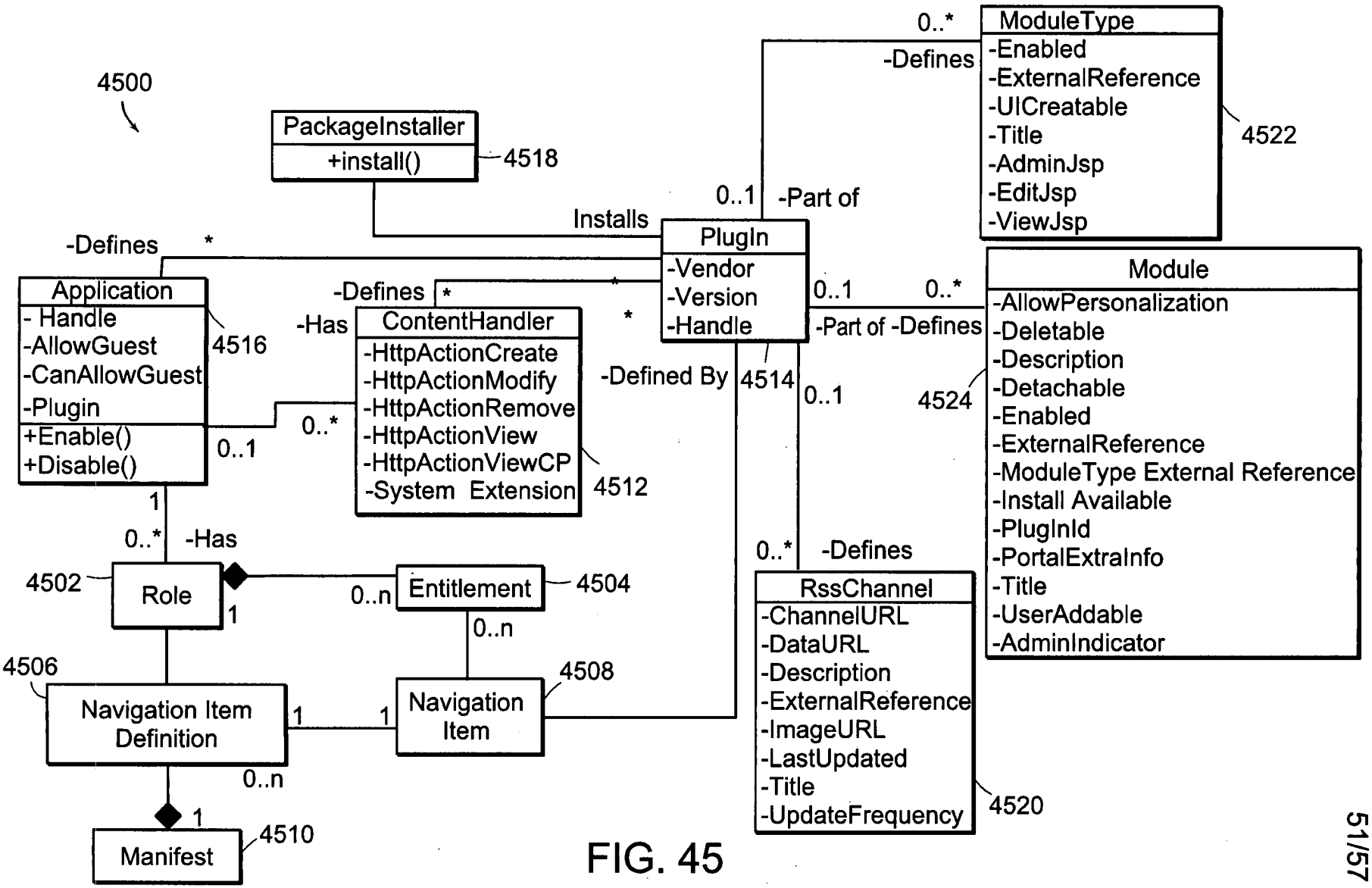

4500
PackageInstaller
+install()
4518
Installs
0..1
-Part of
0..*
-Defines
ModuleType
-Enabled
-ExternalReference
-UICreatable
-Title
-AdminJsp
-EditJsp
-ViewJsp
4522
-Defines
*
PlugIn
-Vendor
-Version
-Handle
0..1
0..*
-Part of
-Defines
Module
-AllowPersonalization
-Deletable
-Description
-Detachable
-Enabled
-ExternalReference
-ModuleType External Reference
-Install Available
-PlugInId
-PortalExtraInfo
-Title
-UserAddable
-AdminIndicator
4524
Application
- Handle
-AllowGuest
-CanAllowGuest
-Plugin
+Enable()
+Disable()
4516
-Defines
*
-Has
ContentHandler
-HttpActionCreate
-HttpActionModify
-HttpActionRemove
-HttpActionView
-HttpActionViewCP
-System Extension
4512
-Defined By
4514
0..1
0..*
0..1
1
0..*
-Has
4502
Role
1
0..n
Entitlement
4504
0..n
4506
Navigation Item Definition
1
1
Navigation Item
4508
0..n
1
Manifest
4510
0..*
-Defines
RssChannel
-ChannelURL
-DataURL
-Description
-ExternalReference
-ImageURL
-LastUpdated
-Title
-UpdateFrequency
4520

FIG. 45

4600

User Name			Role(s)	Entitlement
Last	First	M.I.		
Jones	Allan	S.	A,I	Course, modify calendar, modify
Smith	Jane	T.	C,T	Course, modify calendar, modify
⋮				
Lee	Alex	Y.	O.	Course.view

FIG. 46

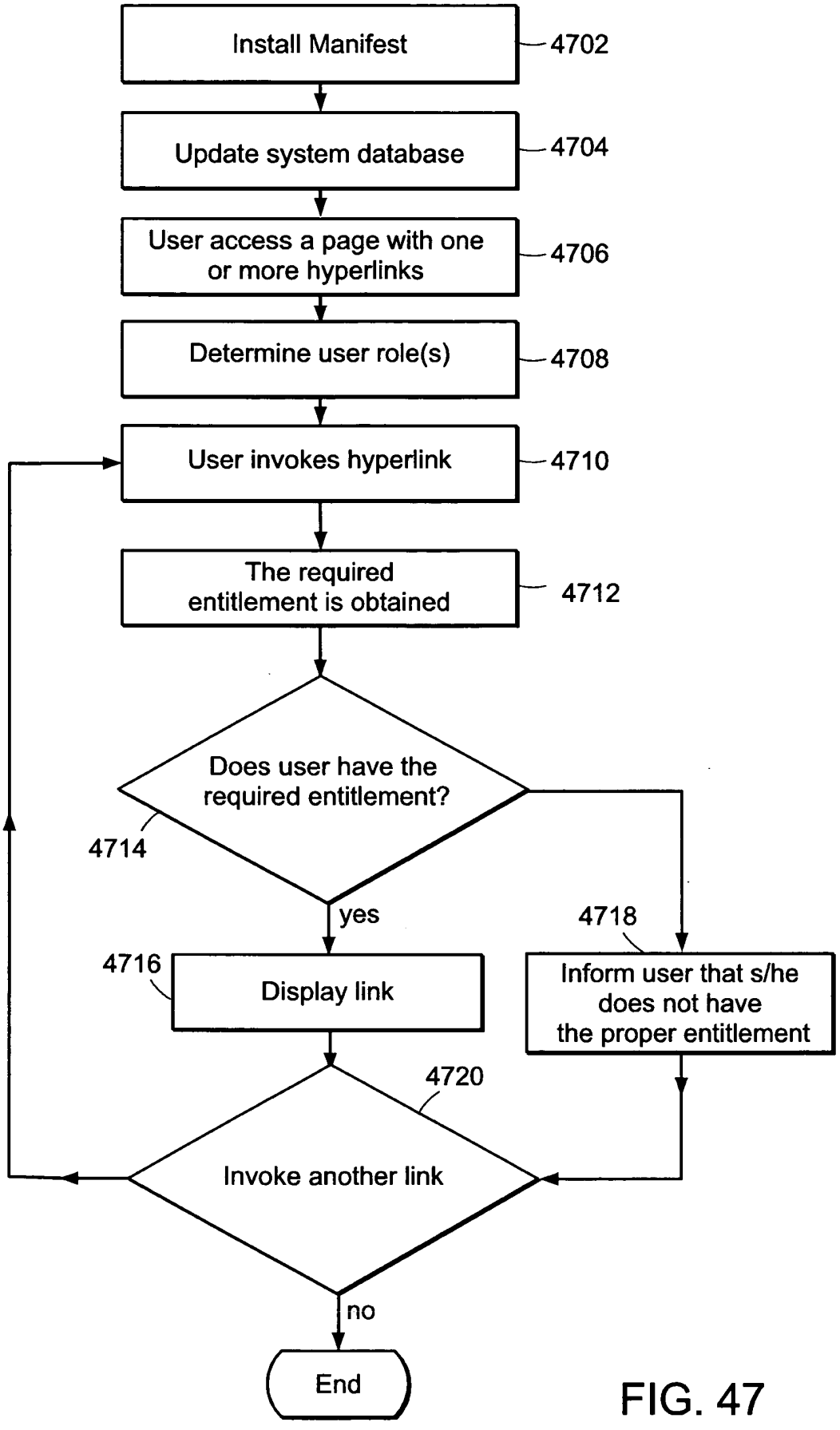

Install Manifest
4702
Update system database
4704
User access a page with one or more hyperlinks
4706
Determine user role(s)
4708
User invokes hyperlink
4710
The required entitlement is obtained
4712
Does user have the required entitlement?
4714
yes
4716
Display link
4718
Inform user that s/he does not have the proper entitlement
4720
Invoke another link
no
End

FIG. 47

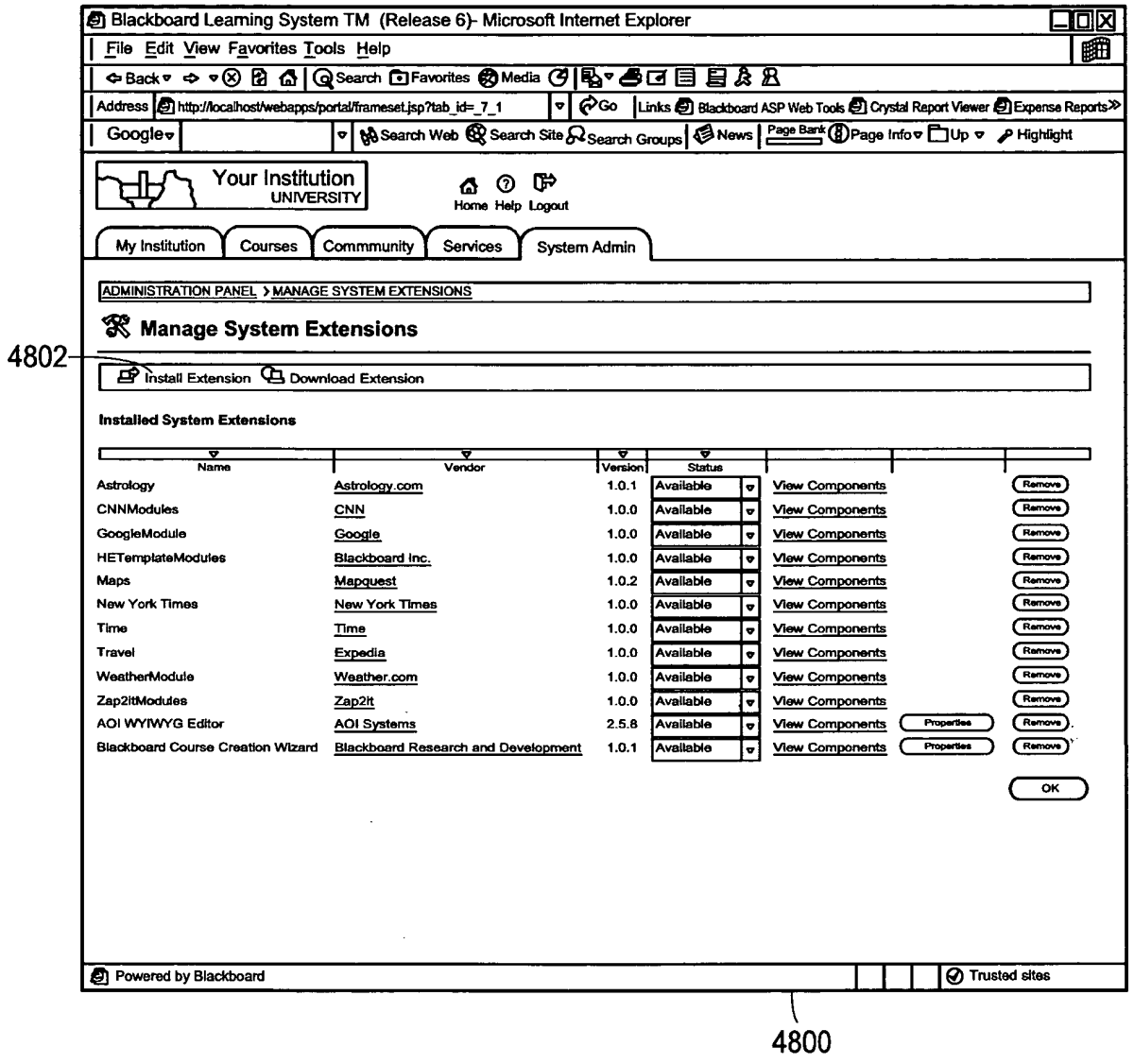
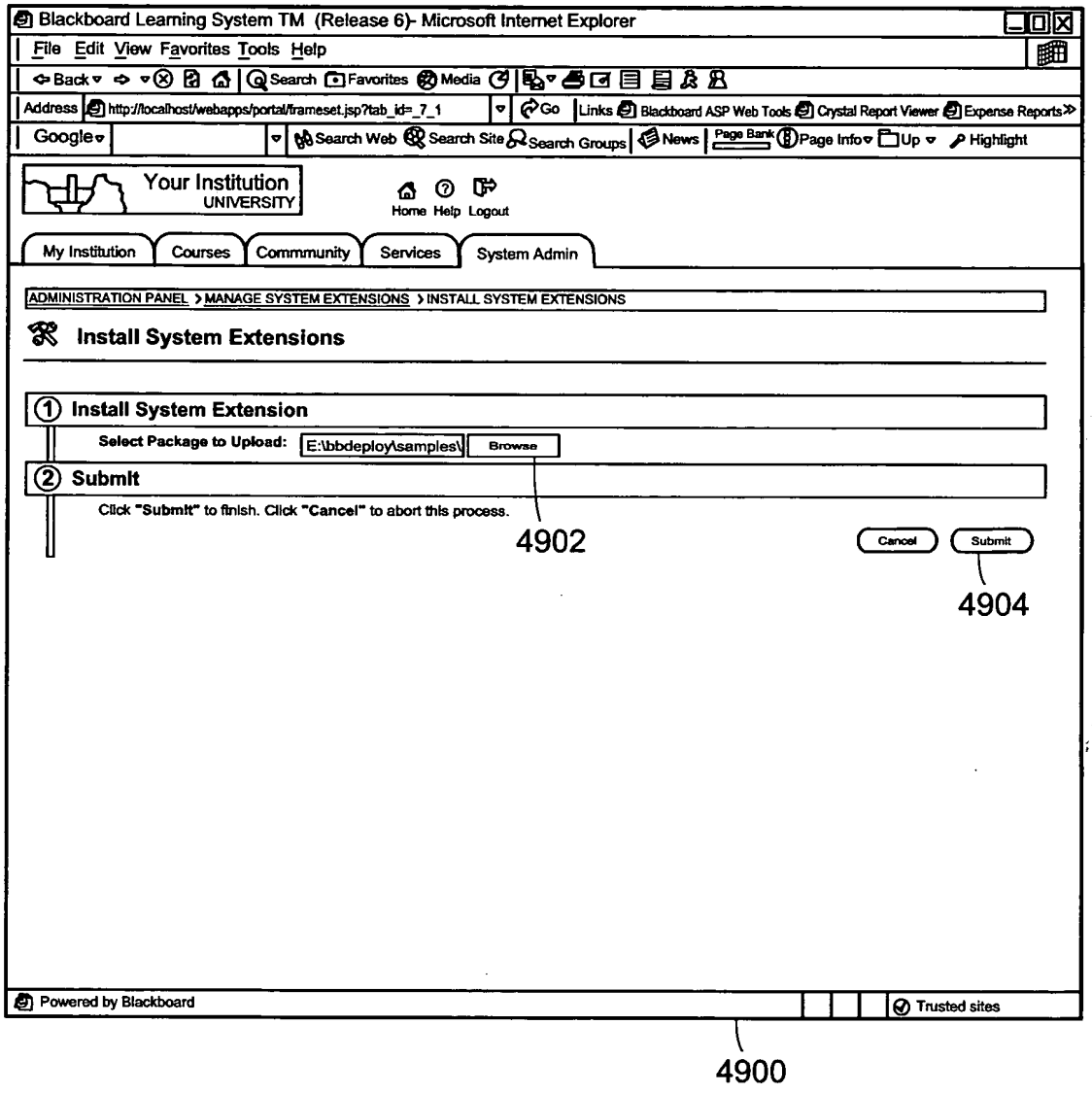

Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://localhost/webapps/portal/frameset.jsp?tab_id=_7_1
Go Links Blackboard ASP Web Tools Crystal Report Viewer Expense Reports
Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Commmunity Services System Admin
ADMINISTRATION PANEL > MANAGE SYSTEM EXTENSIONS
Manage System Extensions
4802
Install Extension Download Extension
Installed System Extensions
Name Vendor Version Status
Astrology Astrology.com 1.0.1 Available View Components Remove
CNNModules CNN 1.0.0 Available View Components Remove
GoogleModule Google 1.0.0 Available View Components Remove
HETemplateModules Blackboard Inc. 1.0.0 Available View Components Remove
Maps Mapquest 1.0.2 Available View Components Remove
New York Times New York Times 1.0.0 Available View Components Remove
Time Time 1.0.0 Available View Components Remove
Travel Expedia 1.0.0 Available View Components Remove
WeatherModule Weather.com 1.0.0 Available View Components Remove
Zap2itModules Zap2It 1.0.0 Available View Components Remove
AOI WYIWYG Editor AOI Systems 2.5.8 Available View Components Properties Remove
Blackboard Course Creation Wizard Blackboard Research and Development 1.0.1 Available View Components Properties Remove
OK
Powered by Blackboard
Trusted sites
4800

FIG. 48


Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://localhost/webapps/portal/frameset.jsp?tab_id=_7_1
Go Links Blackboard ASP Web Tools Crystal Report Viewer Expense Reports
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Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Commmunity Services System Admin
ADMINISTRATION PANEL > MANAGE SYSTEM EXTENSIONS > INSTALL SYSTEM EXTENSIONS
Install System Extensions
1 Install System Extension
Select Package to Upload: E:\bbdeploy\samples\ Browse
2 Submit
Click "Submit" to finish. Click "Cancel" to abort this process.
4902
Cancel Submit
4904
Powered by Blackboard
Trusted sites
4900

FIG. 49

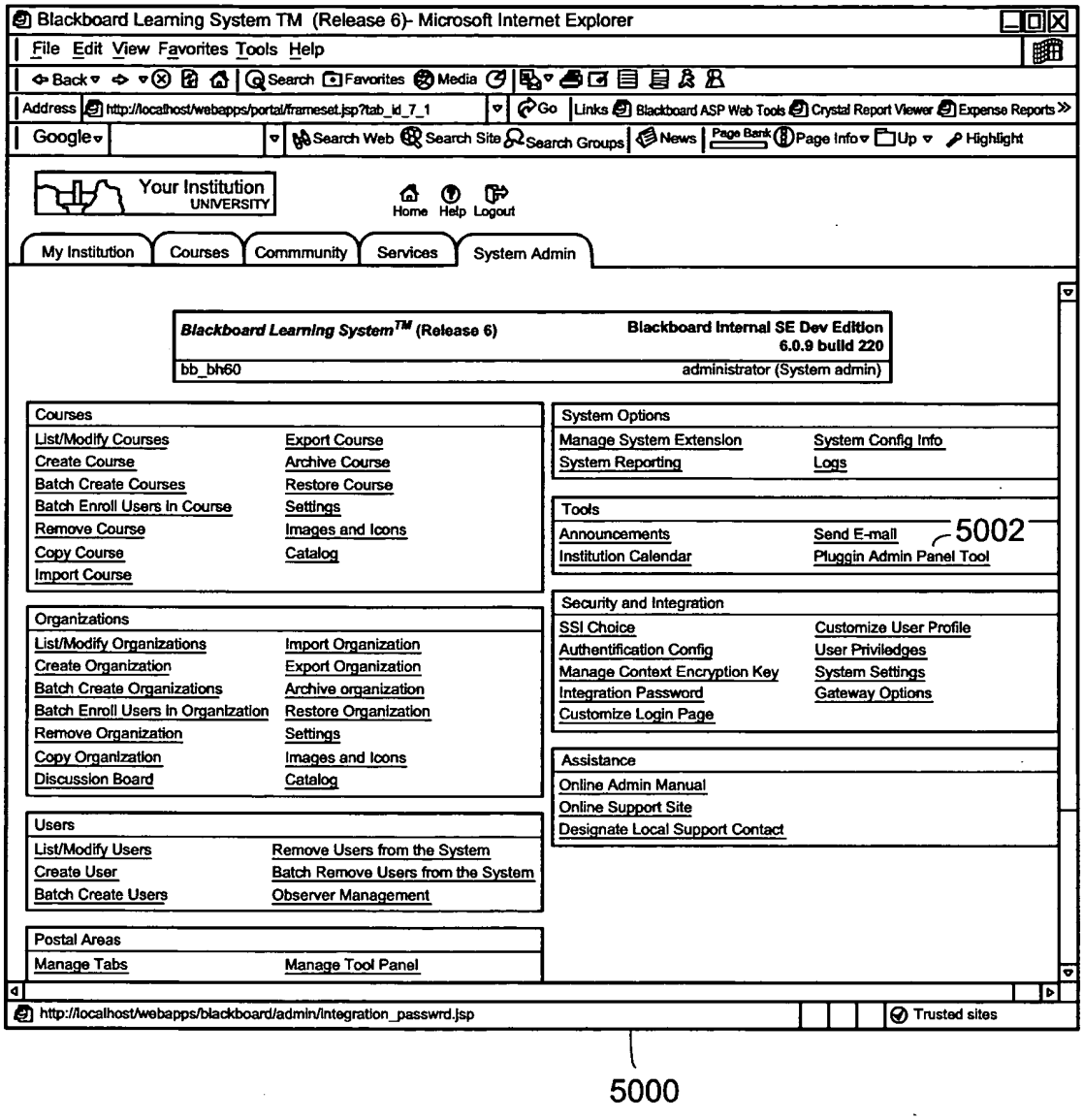
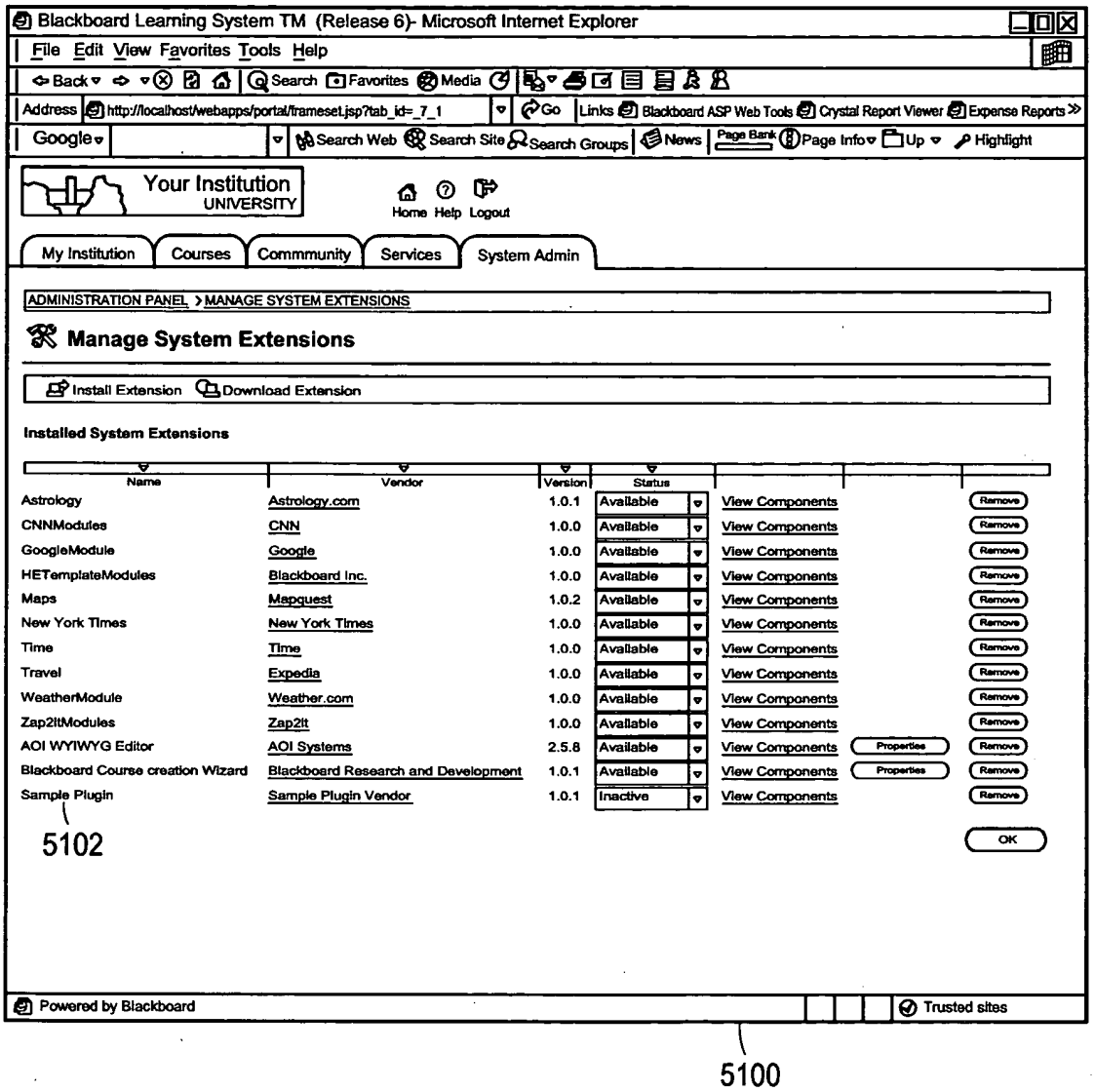

Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://localhost/webapps/portal/frameset.jsp?tab_id_7_1
Go Links Blackboard ASP Web Tools Crystal Report Viewer Expense Reports
Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight
Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Commmunity Services System Admin
Blackboard Learning System™ (Release 6)
Blackboard Internal SE Dev Edition 6.0.9 build 220
bb_bh60
administrator (System admin)
Courses
List/Modify Courses
Create Course
Batch Create Courses
Batch Enroll Users In Course
Remove Course
Copy Course
Import Course
Export Course
Archive Course
Restore Course
Settings
Images and Icons
Catalog
Organizations
List/Modify Organizations
Create Organization
Batch Create Organizations
Batch Enroll Users In Organization
Remove Organization
Copy Organization
Discussion Board
Import Organization
Export Organization
Archive organization
Restore Organization
Settings
Images and Icons
Catalog
Users
List/Modify Users
Create User
Batch Create Users
Remove Users from the System
Batch Remove Users from the System
Observer Management
Postal Areas
Manage Tabs
Manage Tool Panel
System Options
Manage System Extension
System Reporting
System Config Info
Logs
Tools
Announcements
Institution Calendar
Send E-mail
Pluggin Admin Panel Tool
5002
Security and Integration
SSI Choice
Authentification Config
Manage Context Encryption Key
Integration Password
Customize Login Page
Customize User Profile
User Priviledges
System Settings
Gateway Options
Assistance
Online Admin Manual
Online Support Site
Designate Local Support Contact
http://localhost/webapps/blackboard/admin/integration_passwrd.jsp
Trusted sites
5000

FIG. 50


Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
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CNNModules CNN 1.0.0 Available View Components Remove
GoogleModule Google 1.0.0 Available View Components Remove
HETemplateModules Blackboard Inc. 1.0.0 Available View Components Remove
Maps Mapquest 1.0.2 Available View Components Remove
New York Times New York Times 1.0.0 Available View Components Remove
Time Time 1.0.0 Available View Components Remove
Travel Expedia 1.0.0 Available View Components Remove
WeatherModule Weather.com 1.0.0 Available View Components Remove
Zap2itModules Zap2it 1.0.0 Available View Components Remove
AOI WYIWYG Editor AOI Systems 2.5.8 Available View Components Properties Remove
Blackboard Course creation Wizard Blackboard Research and Development 1.0.1 Available View Components Properties Remove
Sample Plugin Sample Plugin Vendor 1.0.1 Inactive View Components Remove
5102
OK
Powered by Blackboard
Trusted sites
5100

FIG. 51